

ANNUAL SUMMARY

OF

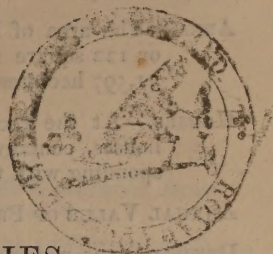
BIRTHS, DEATHS, AND CAUSES OF DEATH

IN

LONDON,

AND OTHER LARGE CITIES,

1871.



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1872.

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LONDON, 1871.

AREA.—The area of London (the registration division so called) is 78,080 acres, or 122 square miles, including 2718 acres of the Thames ; this is equal to 31,597 hectares, or 316 square kilometers.

HOUSES.—At the recent Census there were within this area 417,767 inhabited houses, containing an average of 7·8 persons to a house, exactly corresponding with the proportion in 1861.

ANNUAL VALUE OF PROPERTY (county rate assessment of 1866) = £15,261,999.

DENSITY.—103 persons to a hectare ; 42 persons to an acre ; 26,674 to a square mile.

ELEVATION.—The population of London resides at a mean elevation of 11·9 metres (39 feet) above Trinity high-water mark ; the elevation varying from 3·4 metres (11 feet) below high-water mark in Plumstead Marshes, to 131 metres (429 feet) above high-water mark in Hampstead.

1871—POPULATION . . .	$\left\{ \begin{array}{l} \text{Males} \quad . \quad 1,523,151 \\ \text{Females} \quad . \quad 1,731,109 \end{array} \right\}$	TOTAL . 3,254,260
(Enumerated on 3d April.)		

ANNUAL RATE OF INCREASE OF POPULATION PER CENT.	$\left\{ \begin{array}{l} 1851-61 . \quad 1 \cdot 73 \\ 1861-71 . \quad 1 \cdot 59 \end{array} \right\}$	
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1871—BIRTHS . . .	$\left\{ \begin{array}{l} \text{Males} \quad . \quad 57,034 \\ \text{Females} \quad . \quad 55,501 \end{array} \right\}$	TOTAL . 112,535
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1871—ANNUAL RATE OF BIRTHS PER 1000 . . .	34·5
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1871—DEATHS . . .	$\left\{ \begin{array}{l} \text{Males} \quad . \quad 40,685 \\ \text{Females} \quad . \quad 39,647 \end{array} \right\}$	TOTAL . 80,332
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1871—ANNUAL RATE OF MOR- TALITY PER 1000 . . .	$\left\{ \begin{array}{l} \text{Males} \quad . \quad 26 \cdot 6 \\ \text{Females} \quad . \quad 22 \cdot 8 \end{array} \right\}$	TOTAL . 24·7
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ANNUAL SUMMARY.

LONDON, AND OTHER LARGE CITIES, 1871.

*General Register Office, Somerset House,
16th March 1871.*

CITIES, although no longer the heads of States, created as in Greece and Rome by their energy, are the seats of government, commerce, industry, trade, science, and literature; in England, too, they comprise a large and an increasing proportion of the nation. Besides the indigenous population, they attract the enterprising part of the people born in the country. Their diseases serve to measure the fluctuations in the health of the whole community, of which they are a part, or with which they are in intimate and constant relation. Hence, while the Returns for other districts are made quarterly, Returns are now procured weekly, under special arrangements, from London and twenty of the largest cities of the United Kingdom.

The area of the Weekly Tables has been extended as their utility in recent epidemics has become evident; so that by persevering application, the authorities have been induced to furnish returns similar to those of London, though less complete, from Paris, Rome, Berlin, Vienna, in Europe; from Bombay, Madras, and Calcutta in Asia; and from New York in America. The sanitary state of a large portion of the population of the civilized world is thus reflected; and immediate intimation is given of any epidemic arising in the horizon, even when the cloud is no bigger than a man's hand.

The thousand millions of people in the world are in many ways bound together, simply because they are of the same species, and have wants in common, which are satisfied by the interchange of the productions of various climes through commerce. But they have this still more intimate element of solidarity, that from physical sympathy they are affected by each other's health and sicknesses. A man dies of cholera in the valley of the Ganges, and the disease there generated, like a consuming fire, visits Europe, Africa, and America; a child in Arabia has small-pox, and the disease of this child spreads and exterminates tribes of North American Indians; the plague, born in Egypt or Ethiopia, prostrates the population of the Roman Empire, and sweeps away at intervals through centuries a large proportion of the populations of Athens, Florence, London, and other large cities.

The solidarity here appears to be an evil, inasmuch as it visits on all, the sanitary sins of a few; but in reality the punishment is so graduated as to pass lightly over the heads of nations which have complied with the conditions of human existence, and only to destroy utterly the cities which wallow in impurities, and by ignorance, negligence, or wilfulness, violate the laws of healthy life. But there is on the other hand this compensating element; the discovery of the laws of public health, the determination of the conditions of cleanliness, manners, water supply, food, exercise, isolation, medicine, most favourable to life in one city, in one country, is a

boon to every city and to every country, for all can profit by the experience of one; a hygienic truth once established by facts, becomes as general in its application as a truth in chemistry.

The class of zymotic diseases deserves especial attention; they give rise to all the epidemics, and may be popularly explained on the assumption that their phenomena are the effect of changes in man and in the higher animals, wrought by the invasion of self-multiplying molecules of the lowest, simplest forms of life, having this in common with the highest forms, that they succeed each other in generations, with the marvellous variations of number so commonly observed in vegetable blights, fungi, flies, locusts, and parasites. The precautions commonly adopted, have had in view the isolation of the sick, which in the cases of leprosy, hydrophobia, and syphilis, where the zymotic matter is fixed in a solid or fluid, proves effectual at least, in restraining the disease within narrower limits than it would otherwise attain. Few people contest the propriety of isolating lepers, as it was done under the Mosaic law; neither is it considered an evil to shut up dogs in times when hydrophobia is common; but a large party in the country disputes, on various grounds, the policy of restraining women from sowing syphilis through the land, and insists on reversing the policy now in operation, which is certainly calculated to diminish the chances of its extension among all classes of people, including an indeterminate number of children. The question may be looked at from a moral, as well as a physical point of view; but it is evident that either man or woman who goes on communicating a disease so injurious as syphilis is to the human race is a living nuisance, to be suppressed by the laws in the mildest way, but to be suppressed at any reasonable cost. In London the deaths from syphilis are imperfectly reported, as they are often referred to secondary diseases; but the same system of reporting which showed a rapid increase from 288 in the year 1859 to 473, 466, and 463 in the years 1868-70, showed a decline to 356 in the year 1871.

Another method of limiting the diffusion of disease is illustrated by vaccination, where the milder form of disease protects the system to a great extent against the danger of future attacks of small-pox. In spite of the compulsory vaccination Act, this disease was epidemic in 1871, and in London alone killed 7876 persons. Several of these persons had been vaccinated; but the great bulk of them had never been vaccinated at all, and certainly had never had the true cow-pox. The Act was imperfect from the first, the work was in itself difficult, and its administration was not at all calculated to overcome the opposition to its operation. The result is the signal failure here proved by 13,174 deaths from small-pox in the year 1871 among the population of 17 large English towns.

The other zymotic diseases, as is often the case, were less active in the year; the great epidemic of scarlet fever, so fatal in the two previous years, subsided, and in 1871 was fatal, in the 17 largest English towns, to 4253 persons. On pages xxiv-v is a table showing the weekly deaths by scarlet fever in London during the 32 years 1840-71; it will be noticed that the disease is constantly undergoing fluctuations, but that on an average it is most fatal in the months of October and November. In hygienic matters it is right to take precautions against the entrance into a city of zymotic diseases of any form; but, as in the case of vaccination, it is not sufficient to stop disease of one kind while the causes of diseases of all kinds abound in air, water, soil, house, food; it is necessary to take the whole condition of the city into account, and to leave none of those causes in operation by which health is destroyed, life embittered, and generations debased. This can be done under a simple practical sanitary code.

LARGE TOWNS OF THE UNITED KINGDOM.

During the 52 weeks of 1871, among the rather more than seven millions of people living in London and the 19 other large cities of the United Kingdom furnishing Weekly Returns, the birth-rate was equal to 36 per 1000, and the death-rate to 27. The birth-rate differed but slightly from that in the previous year, while

the death-rate showed an increase of 2 per 1000. In Dublin the rate was 26, in Edinburgh 27, while in Glasgow it was so high as 33, which among the English towns was only exceeded by the rates in Liverpool and Sunderland. The Census enumeration in April last showed that the population of Edinburgh had been considerably under-estimated in recent years, while it had been overstated in Dublin. In Dublin the population was all but stationary during the ten years 1861-71.

ENGLISH LARGE TOWNS.

In 17 of the largest English towns, and in 50 other large town districts, it is estimated, from the numbers enumerated in April last, that 8,728,324 persons were living at the middle of last year, among whom 316,891 births, and 226,935 deaths were registered during the year, the birth-rate being equal to 36, and the death-rate to 26 per 1000; in the 17 largest towns the death-rate was 26·5, while in the 50 towns ranking next in size it did not exceed 24·8. In the population of England and Wales, exclusive of these 67 towns, the death-rate was 21 per 1000. This difference occurred principally in the death-rate from the seven principal zymotic diseases, which was 6·5 in the 17 largest towns, 5·3 in the 50 other towns, and 3·4 in the rest of England and Wales; among the 50 towns small-pox was only severely epidemic in Southampton, South Shields, and Gateshead, while in the 47 others the death-rate from the principal zymotic diseases ranged from 1·8 and 2·1 per 1000 in Cheltenham and Exeter, to 8·3 in both Wigan and Stoke-upon-Trent. The death-rate from all causes in these 50 towns was under 20 per 1000 last year in Dover, Chatham, and Cheltenham; while it exceeded 30 per 1000 in Stoke-upon-Trent, Preston, South Shields, and Gateshead.

In the 17 largest English towns furnishing Weekly Returns, and including London, the birth-rate last year was 36·2 per 1000, and ranged from 33 in Nottingham and 34 in Norwich, to 41 each in Sunderland, Salford, and Leicester. The death-rate averaged 26·5 per 1000; it did not exceed 19 in Portsmouth and 23 in Hull and Bristol, while it was 31 in Manchester, 32 in Newcastle, 35 in Liverpool, and 37 in Sunderland. The small-pox epidemic was the principal cause of the excess in the three latter towns. Influenced partly by the seasons, and partly by the varying fatality from the small-pox epidemic, the annual rate of mortality from all causes in the 17 towns was 28 in the first, 24 in the second, 26 in the third, and 27 in the fourth quarters of the year; the highest annual rate was 34 in the 50th week of the year, and the lowest 21 in the 27th week, or the beginning of July. The weekly deaths from small-pox in these 17 towns, which were 133 in the first week of the year, rose to 370 in the fifth week of the second quarter, and were 371 in the last week of June; the weekly numbers declined during the third quarter to 120 in the second week of September; during the last quarter of the year they rose again steadily, and averaged 287 in the last three weeks of December. In the first quarter of the year the small-pox epidemic in these 17 largest towns was almost confined to London and Liverpool, in the second quarter it became fatally prevalent in Newcastle and Sunderland, while in the last quarter of the year, Norwich, Wolverhampton, Nottingham, and Sheffield suffered severely from the disease, which was also prevalent to a slighter extent in Manchester and Salford. The 13,174 deaths in the 17 towns referred to small-pox during the year imply a death-rate of 2·1 per 1000 persons living. The death-rate from the seven principal diseases of the zymotic class in these towns last year, including small-pox, averaged 6·5 per 1000, while in 1870 it was only just below 6 per 1000; it is evident therefore that the greatly increased fatality from small-pox was nearly balanced by a decline in the deaths from the other diseases. To scarlet fever only 4253 deaths were referred in the 17 towns last year, against 11,054 in 1870; and different forms of fever caused but 4857 deaths against 5475. Measles and whooping-cough were slightly more fatal last year than in 1870. In the several towns the lowest death-rates from these seven

diseases were 3·2 in Portsmouth, 3·5 in Bristol, and 4·3 in Hull; and the highest, 8·1 in Salford, 9·3 in Newcastle-upon-Tyne, 11·4 in Liverpool, and 15·5 in Sunderland.

The 164,419 deaths from all causes in the 17 largest English towns during 1871 included 43,113 or 26·2 per cent. of infants under one year of age, and 29,906 or 18·2 per cent. of persons aged 60 years and upwards; these proportions were almost identical with those which prevailed in the same 17 towns during 1870. Infant mortality, measured by the per-centage of deaths under one year to births registered, averaged 19·2 last year in the 17 towns, against 18·3 in 1870; in the several towns last year this per-centage ranged from 14·4 and 16·5 respectively in Portsmouth and Bristol, to 24·1 in Leicester and 26·9 in Liverpool. The proportion of deaths of elderly persons to deaths at all ages in the several towns ranged from 12·7 per cent. in Salford and 13·8 in Sheffield, to 23·6 in Bristol and 25·0 in Norwich.

In the large PUBLIC INSTITUTIONS of the 17 towns no less than 24,261 deaths were recorded in 1871, showing a proportion equal to 14·8 per cent. of the total deaths, against 13·5 in 1870; this increase was in great measure due to the deaths occurring in temporary small-pox hospitals established to meet the exigencies of the epidemic. The per-centage of deaths in public institutions last year was 18·2 in London and 16·1 in Liverpool, while it was only 5·8 in Bradford and 7·3 in Sheffield. It is somewhat remarkable that notwithstanding the severity of the small-pox epidemic in Sheffield during the last quarter of 1871, resulting in 360 deaths, no special small-pox hospital appears to have been established, and the deaths recorded in the established workhouses and hospitals situated within the borough were actually below the numbers recorded in the first and second quarters of the year.

During the year 9483, or 5·8 per cent., of the deaths were registered in the 17 towns upon the information of the coroner, being inquest cases; in the previous year 8881 inquests were registered, or 5·6 per cent. of the total deaths. The highest proportions of these inquest cases last year were 6·2 per cent. in London, 6·6 in Manchester, and 9·2 in Birmingham. The deaths referred to different forms of violence in large towns show a constant increase; in the 17 largest English towns 5273 deaths were caused by violence, principally resulting from negligence (which is returned as accidental), against 4982 in 1870. The per-centage of these violent deaths last year, which averaged 3·2 in the 17 towns, ranged from 1·9 and 2·2 respectively in Leicester and Salford, to 3·9 in Liverpool and 5·1 in Birmingham. This excess of deaths from violent causes in Birmingham was as conspicuous in 1870 as during last year.

The calculated death-rates relating to these towns published in the present Summary acquire additional value from the fact of their being based upon populations derived from the recently enumerated numbers instead of the populations estimated from the 1861 Census numbers; the estimates in recent years having in several instances shown considerable divergence from the correct numbers. The death-rates in each of the towns for the four years 1867-70 (in Table 1.) have for this reason been re-calculated, and will be found to differ from those previously published, and based upon those estimates. In the Registrar General's Quarterly Return for the June quarter of 1871, pp. xiii-xvii, will be found in detail the differences which were shown between the numbers enumerated in April 1871 in each of these towns, and the estimated numbers which had been used for calculation purposes up to the taking of the Census.

LONDON.

The number of persons enumerated in April 1871 within the registration district of London, after revision at the Census Office, was found to be 3,254,260, while in 1801 it was but 958,863. The revised area is given as 78,080 acres, or 122 square miles; this includes 2718 acres of the Thames. The mean density of

population in this area was 42 persons per acre; in 1801 it was only 12, while it successively increased at each Census enumeration to 36 in 1861. In the Central Districts at the last Census the mean density was 150, while it was 107 in the East, 56 in the North, 52 in the West, and only 21 in the South districts which include considerably more than half the entire area of London. Among the 137 registration sub-districts this density ranged from 1 person per acre in Eltham, and 3 each in Lewisham and Dulwich, to 410 and 418 respectively in St. Andrew and Whitecross sub-districts of Holborn, and 429 in Berwick Street sub-district of Westminster.

The decennial increase of population in the whole of London, which had been 21.2 and 18.7 per cent. in the two decades 1841-51 and 1851-61, further declined to 16.1 per cent. between 1861-71. In the central group of districts, including, besides the City, St. Giles, Strand, and Holborn, the population had decreased 12.8 per cent. between 1861 and 1871; while the increase was 11.9 in the East, 21.6 in the North, 22.5 in the West, and 25.2 in the South groups of districts. It is but natural that the increase of population should be largest where the density of population is smallest, that is where there still exists most land still uncovered with buildings. We may therefore fairly expect that the largest increase during the present decade will occur in Hammersmith and Fulham in the West, Hampstead in the North, and in Norwood, Wandsworth, Putney, Streatham, Dulwich, Eltham, Lewisham, and Charlton in the south group of districts. In each of these sub-districts the number of persons enumerated to an acre in 1871 showed that a considerable portion of their area still remains to be built over. The most remarkable case of increase of population between 1861 and 1871 occurred in Battersea sub-district, in which the number of persons rose from 19,600 in 1861 to 54,016 in 1871, the increase being equal to 176 per cent. The largest decrease was shown in Queenhithe sub-district of the City; here the population fell from 8570 in 1861 to 4753 in 1871, a decrease of nearly 45 per cent.; in the sub-district of St. Olave, Southwark, the decrease was equal to 43 per cent. In Table 8. will be found not only the population of each of the 137 sub-districts of London at six Census enumerations between 1801 and 1871, but the decennial increase or decrease per cent. in each sub-district in each of the three decades 1841-51, 1851-61, and 1861-71. This Table affords ample means for studying in detail the rise or fall of population in the various parts of London in the past 70 years.

In London during the 52 weeks of 1871, 112,535 births and 80,332 deaths were registered; the natural increase to the population of the Metropolis by excess of births over deaths was therefore 32,203. Now, as the estimated increase of population between the middle of 1871 and the middle of 1872 is 48,719, it follows that the increase to the London population in 1871 by excess of births over deaths was supplemented by about 16,000, representing the balance of immigration over emigration. The birth-rate in London last year was equal to 34.5 per 1000, and was 1.7 per 1000 below the average rate in the 17 largest English towns. The birth-rate varies to a remarkable extent in different sections of the population; this variation is governed by the ages, proportion of the sexes, conjugal condition, and social position of the people. For instance, during last year in London the birth-rate per 1000 in Christchurch sub-district of the City was but 14, and in St. James's Square 15, while it was 40 in Hoxton Old Town, 41 in Haggerston East, and 44 in St. James, Bermondsey, sub-districts. In the five groups of districts the birth-rate for the year averaged 30 in the West, 34 in the North, 32 in the Central, 39 in the East, and 36 in the South.

The 80,332 deaths in London last year included 19,201 or 23.9 per cent. of infants under one year of age, and 15,541 or 19.3 per cent. of persons aged 60 years and upwards; these proportions were almost identical with those observed in 1870. Infant mortality measured by the proportion of deaths of infants under one to births registered was 17.1 per cent. last year, or 2.1 lower than the average proportion in the 17 towns. Among the deaths of elderly persons 2807 were registered at 80 years of age and upwards, against 2738 during 1870.

The deaths at all ages in London last year included 7876 which were referred to small-pox, 1431 to measles, 1896 to scarlet fever, 313 to diphtheria, 2299 to whooping-cough, 1746 to different forms of fever, and 3894 to diarrhoea; in all 19,455 or 24·2 per cent. of the deaths from all causes resulted from these seven principal diseases of the zymotic class, against 16,476 in 1870. The deaths from these causes last year were equal to six per 1000 of the population. Small-pox, to which only 273 deaths were referred in London during 1869, became epidemic during the last quarter of 1870, in the three months of which 584 fatal cases occurred; in the first quarter of last year the fatal cases rose to 2400, in the second three months to 3241, while in the last two quarters of the year they declined to 1255 and 980 respectively. The death-rate in the year from small-pox was 2·4 per 1000. The fatal cases of measles differed but slightly from those in the previous year; the weekly numbers were continually below the average during the first three quarters of last year, while a considerable increase was shown in the three months ending December. Scarlet fever which had been fatally epidemic in most parts of the Metropolis during 1869 and 1870, causing 5803 and 5998 deaths respectively, showed a considerably smaller fatality during 1871 resulting in but 1896 deaths, of which 722 occurred in the first quarter of the year; excepting 1866 and 1867 scarlet fever was less fatal in London last year than in any of the twelve years 1859-70. The 313 deaths from diphtheria corresponded with the number in 1870; the deaths referred to this disease have steadily declined in London since 1861-2-3, previously to which they were not separately classified from scarlet fever. The 2299 deaths from whooping-cough exceeded by 364 those in 1870, while they were 1456 below the number in 1869. Of the 1746 deaths referred to fever last year, 398 were classified as typhus, 885 as enteric or typhoid, and 463 as simple continued fever. It is a satisfactory sign of the improving sanitary condition of the Metropolis to find that the deaths referred to different forms of fever have steadily declined from 3689 in 1864 to 1746 last year. Excepting the year 1868, when the summer heat was so remarkably high, the 3894 deaths referred to diarrhoea in London last year, of which 3122 occurred in the third quarter, considerably exceeded the number in any year since 1859.

To different forms of violence 2594 deaths in London were referred during 1871, against 2348 and 2576 in 1869 and 1870; of these, 2138 resulted from negligence or accident, including 909 from fractures and contusions, 261 from burns and scalds, 45 from poison, 300 from drowning, and 490 from suffocation, nearly all cases of infants. During the year 300 cases of suicide, and 109 of murder or manslaughter were registered; nearly all the latter were cases of infanticide. The deaths from fractures and contusions included 208 caused by horses or vehicles in the streets; the numbers of these fatal accidents were 192 in 1869 and 198 in 1870. The deaths from all forms of violence showed a proportion of 3·2 per cent. of the total deaths last year, corresponding exactly with the average proportion in the 17 largest English towns. The number of violent deaths registered in London is doubtless raised to an appreciable extent by cases of injury occurring in the suburban districts, which are admitted to the London hospitals, and proving fatal are therein registered. Inquests were held on 4968, or 6·2 per cent., of the total deaths in London last year; in the previous year the inquest cases were 4551.

No less than 14,665 deaths in London last year, or 18·3 per cent. of the total deaths, were recorded in the large Metropolitan public institutions; of these, 6675 occurred in workhouses, 7486 in hospitals, 347 in lunatic asylums, 81 in naval and military asylums, and 76 in prisons. These deaths in institutions showed an increase of 2365 upon those in 1870, a result principally due to 2856 being recorded in the permanent and temporary small-pox hospitals; of these, 1151 occurred in that at Hampstead, 650 at Stockwell, and 614 at Homerton.

The death-rate from all causes in London last year was 24·7 per 1000, and higher than in any year since 1866 when cholera was epidemic; exclusive of the deaths from small-pox the rate would have been but 22·3 per 1000. The male death-rate was 26·6, while among females it did not exceed 22·8 per 1000; at

the recent Census there were 113·7 females living in London to each 100 males. In the several groups of districts the death-rate of persons was 22·5 in the West, 25·6 in the North, 25·0 in the Central, 26·2 in the East, and 24·1 in the South. The deaths recorded in the public institutions form a most disturbing element in calculating local rates of mortality in the various districts and sub-districts of London; unless the 14,665 deaths in institutions last year could be correctly distributed among the sub-districts from which the inmates were received the several death-rates could not be satisfactorily ascertained. After distributing these deaths among the five groups of districts, in proportion to those occurring among the normal population of each of the groups, the corrected death-rates per 1000 become 22·8 in the West, 23·8 in the North, 24·4 in the Central, 26·8 in the East, and 25·1 in the South. By comparing these corrected rates with the uncorrected ones quoted above it will be seen, that the rates in the North and Central groups were unduly raised by an excessive proportion of deaths in institutions, while the rate for the South Districts was under-stated.

METROPOLITAN WATER SUPPLY.

Dr. Frankland contributes (at pp. xxxiii-xlii) some valuable remarks upon the London water supply in 1871, in a summary of his analytical examinations of the waters supplied by the eight Metropolitan Companies. The daily supply to London is now about 107 millions of gallons; of this 20 millions is "good wholesome water from wells and springs in the chalk," and 87 millions is "more or less impure water derived from polluted rivers." The Chelsea and Lambeth Companies draw their supplies from the Thames after it has received the polluted Mole, and the sewage of 600,000 people, including the filth of Oxford, Reading, and Windsor. The West Middlesex, Southwark, and Grand Junction Companies draw their water from the Thames above the junction with the Mole, but after it has received the sewage of the three above mentioned towns, as well as of smaller places. The East London Company takes its supply of water from the Lea, below the sewer outfalls of Luton, Hertford, and Ware. The Lea, however, is less polluted than the Thames, and, as Dr. Frankland remarks, it is to be "regretted that the East London Company has just spent about 500,000*l.* in conveying water from the Thames to their works in the Lea valley." This new source of supply will probably come into use in the current year when "a considerable deterioration in the quality of the water supplied by this company may be looked for." The New River Company draws rather more than half its supply from chalk wells, and the rest from the river Lea above the sewer outfalls of Hertford and Ware, but below those of Luton, Whitwell, and Welwyn. The Kent Company is the only one of the Metropolitan Companies which draws its entire supply from chalk wells and does not distribute any water from polluted rivers; "this water is uniformly excellent for drinking and all domestic purposes, but is too hard for washing." The average relative proportions of organic impurities contained in the different companies' water at the several analyses during 1871 may be stated as follows:—Kent 1, New River 2, West Middlesex, East London, and Chelsea each 6, Grand Junction and Lambeth 7, and Southwark and Vauxhall 8. With regard to filtration, the West Middlesex and New River Companies delivered clean and transparent water on all occasions when tested; the Chelsea water was more or less turbid on 5 occasions out of 15, the Southwark on 4 out of 13, the Grand Junction on 4 out of 15, the Lambeth on 7 out of 14, and the East London on 3 out of 13. As the Kent water is drawn entirely from deep chalk wells it is not filtered before delivery, and the natural filtration it receives through the chalk is so superior to the best artificial filtration that this company's water has never for several years past shown any signs of turbidity. The Chelsea and Lambeth Companies, however, "periodically deliver water so muddy as to be entirely unfit, on "this account alone, for domestic use." Living organisms were found during 1871 in most of the turbid samples delivered by each of the Companies drawing their supplies from the Thames, excepting only the West Middlesex which on all occasions sent out well filtered water.

METROPOLITAN MAIN DRAINAGE.

According to weekly returns furnished by the Engineers of the Metropolitan Board of Works, the average daily quantity of sewage pumped into the river Thames at Crossness was 230,545 cubic metres, and at Barking 250,092, equivalent to about as many tons by weight; in 1870 the daily quantities averaged 207,396 and 180,700 cubic metres. The large increase last year in the amount pumped at Barking was probably due to the progress made in the low level sewer on the north side of the Thames, which was only partially used during the first part of 1870. The influence of the rain-fall upon the amount of sewage pumped does not appear to be very direct; for instance, at Crossness the average daily quantity during the September quarter, when the rain-fall was 8·3 inches, was 238,708 cubic metres, while in the December quarter, with a rain-fall of but 3·2 inches, the daily average of sewage was 216,465 metres.

FIRES IN THE METROPOLIS.

The Report of Captain Shaw, Chief Officer of the Metropolitan Fire Brigade, shows that 1842 fires in the Metropolis were attended by the Brigade during 1871, a decrease of 104 upon the number in 1870; the damage was classified as serious in 207, and as slight in 1635 of these cases. The staff of the Brigade shows no material alteration from what it was in 1870. The lives actually lost at these fires in 1871 was 38, against 33 in 1870. The quantity of water used in extinguishing the fires in 1871 was about 16 millions of gallons. A table showing the fires attended in each month of the year, and a few remarks extracted from Captain Shaw's Report, bearing upon the water-supply with reference to the requirements of the Fire Brigade, will be found on page xlv.

METEOROLOGY.

The mean temperature of the air at the Royal Observatory, Greenwich, during 1871 was 48·7°, the same as during 1870, and nearly identical with the average in 100 years. In the first and third quarters of the year the mean temperature was above, while in the second and fourth quarters it was below, the average. The greatest defect was shown in November and the beginning of December. The mean degree of humidity for the year was 81, three degrees above that for the previous year and but degree below the average of 30 years, complete saturation being represented by 100. The rain-fall of the year was 22·5 inches, 4 inches more than in 1870, but still 2·7 inches below the average fall in 56 years. In the second and third quarters there was an excess of 1·1 and 0·9 inches respectively, but in the last three months of the year the deficiency was 4·0 inches.

FOREIGN CITIES.

Weekly returns are now received from Paris, Berlin, Vienna, Brussels, Rome, Florence, and Turin; but the continuity of the series having been broken, in the case of Paris and Berlin by the war, and in the case of the other cities by interruptions from various causes, a summary for the past year cannot be furnished.

The mortality in the Dutch towns was excessive during 1871 owing to a fatal epidemic of small-pox; the death-rate from all causes was equal to 46 per 1000 in Rotterdam, 44 in Utrecht, 41 in the Hague, and 34 in Amsterdam; the small-pox rate was 14 per 1000 in both Rotterdam and the Hague.

Weekly returns are now supplied by the Health Officers of Calcutta, Madras, and Bombay. In Calcutta the deaths registered during the 52 weeks of 1871 were 10,467, showing a death-rate of 24 per 1000 of the population (430,000 persons) enumerated in 1867; of these 10,467 deaths, 4013 or 38 per cent. were referred to remittent fever. In Madras 13,034 deaths were registered during the 52 weeks of the year, and the death-rate calculated on the population of 427,771, as enumerated in 1863, was 30 per 1000. In Bombay the deaths from all causes (exclusive

of still-born) during the same period were 16,008, giving a death-rate of 20 per 1000 of the population 816,562 as enumerated in 1864. Remittent fever was again the most fatal disease, having caused 5442 deaths; small-pox was fatal in 921 cases.

An annual return furnished by Dr. Chas. P. Russel, Registrar of Records to the Health Department of the City of New York, shows that, during the 12 months ending 31st December 1871, 26,976 deaths occurred in that city, giving an annual rate of mortality of 29, the population being estimated at 942,292. These 26,976 deaths included 805 from small-pox, 409 from measles, 791 from scarlet fever, 238 from diphtheria, 465 from whooping-cough, 306 from different forms of fever, and 3653 from cholera and diarrhoea. The total number of deaths from these eight diseases of the zymotic class was 6667, equal to an annual rate of 6 per 1000, corresponding with the death-rate in London during the year from the same eight diseases.

TABLES.

TABLE 1. - Population; Births and Deaths; Annual Birth and Death Rates; Mean Temperature and Rainfall, in the Year 1871, in London and Nineteen other Large Towns of the United Kingdom.

CITIES AND BOROUGHES.	ESTI- MATED POP- ULATION in the middle of the Year 1871.*	PER- SONS to an Acre, mid. 1871.	BIRTHS in 52 Weeks ending 30th Dec. 1871.	DEATHS in 52 Weeks ending 30th Dec. 1871.	ANNUAL RATE per 1000 living.						MEAN TEMPER- ATURE in 52 Weeks ending 30th Dec. 1871.	RAIN- FALL in inches in 52 Weeks ending 30th Dec. 1871.
					BIRTHS in 52 Weeks ending 30 Dec. 1871.	DEATHS in 52 Weeks ending December						
						1871.	1867.	1868.	1869.	1870.			1871.
TOTAL of 20 TOWNS in the UNITED Kingdom -	7,199,390	34	259,420	193,764	36'0	25'2	26'3	26'2	25'8	26'9	47'7	26'6
LONDON - - -	3,263,872	42	112,535	80,332	34'5	22'9	24'0	24'6	24'0	24'7	48'7	22'3
PORTSMOUTH - -	113,450	12	3,938	2,195	34'7	20'9	23'0	22'3	22'1	19'3	48'8	24'9
NORWICH - - -	80,533	11	2,745	2,087	34'1	22'2	25'1	21'2	27'7	25'9	46'8	22'8
BRISTOL - - -	183,293	39	6,417	4,246	35'0	21'7	22'3	23'1	28'4	23'2	..	..
WOLVERHAMPTON -	68,476	20	2,651	1,914	38'7	23'1	28'8	26'1	23'5	28'0	47'1	23'2
BIRMINGHAM - -	344,980	44	13,443	8,594	39'0	25'6	25'9	23'1	23'0	24'9	47'9	..
LEICESTER - - -	95,882	30	3,836	2,569	41'1	25'3	28'9	26'2	27'9	26'8	47'5	..
NOTTINGHAM - -	86,929	44	2,897	2,259	33'8	22'1	23'9	24'2	24'0	26'0	47'7	26'6
LIVERPOOL - - -	494,619	97	18,335	17,375	37'1	30'6	31'0	30'4	32'9	35'1	48'4	26'2
MANCHESTER - -	351,488	78	13,498	10,959	38'4	32'8	34'3	30'7	29'8	31'2	..	..
SALFORD - - -	125,492	24	5,127	3,815	40'9	28'2	31'0	28'4	25'8	30'4	47'0	33'0
BRADFORD - - -	146,987	22	5,682	3,763	38'0	24'6	27'0	25'6	27'5	25'5	48'2	..
LEEDS - - -	260,637	12	10,401	6,889	39'9	26'2	28'3	26'6	28'7	28'4	47'8	27'4
SHEFFIELD - - -	241,507	11	9,764	6,843	40'4	25'4	28'1	28'7	26'5	28'3	47'3	30'1
HULL - - -	122,266	34	4,473	2,841	36'6	23'7	26'6	27'4	23'8	23'2	45'6	24'2
SUNDERLAND - -	98,797	30	4,017	3,608	40'7	23'9	27'2	22'9	20'9	36'5	..	..
NEWCASTLE-ON-TYNE	128,877	24	5,070	4,140	39'4	31'8	27'1	27'2	25'4	32'2	..	..
EDINBURGH - - -	201,728	46	6,881	5,434	34'1	25'2	25'2	27'6	23'7	26'9	47'1	..
GLASGOW - - -	479,227	95	18,850	15,765	39'3	28'2	30'7	34'0	29'6	32'9	..	..
DUBLIN - - -	310,565	33	8,860	8,146	28'5	27'7	25'8	24'7	24'9	26'2	..	..

* The figures in this column are the unrevised numbers enumerated at the Census in April 1871, raised to the middle of the year by the addition of 1-40th of the rate of increase which prevailed between 1861 and 1871. The population of Dublin, however, is taken as stationary.

TABLE 2.—Mean Temperature at the Royal Observatory Greenwich, and Annual Rate of Mortality per 1000 Persons living in Twenty Large Towns of the United Kingdom, in each Week of 1871.

Number of Week.	WEEKS ENDING	MEAN TEMPERATURE AT GREENWICH.		ANNUAL RATE OF MORTALITY PER 1000.																									
		Fahrenheit.	Centigrade.	TOTAL OF 20 LARGE TOWNS.	LONDON.	PORTSMOUTH.	NORWICH.	BRISTOL.	WOLVERHAMPTON.	BIRMINGHAM.	LEICESTER.	NOTTINGHAM.	LIVERPOOL.	MANCHESTER.	SALFORD.	BRADFORD.	LEEDS.	SHEFFIELD.	HULL.	SUNDERLAND.	NEWCASTLE-ONTYNE.	EDINBURGH.	GLASGOW.	DUBLIN.					
	YEAR (of 52 Weeks ending 31 Dec. 1871.)	48°7	9°28	27	25	19	26	23	28	25	27	26	35	31	30	26	26	28	23	37	32	27	33	2	3	3	3	3	3
	March Quarter	40°2	4°55	29	27	18	25	26	26	28	28	25	47	31	27	27	26	27	23	28	28	29	37	3	3	3	3	3	3
	June "	51°5	10°83	25	23	18	20	19	20	23	21	19	34	28	29	25	23	25	22	31	32	27	35	2	2	2	2	2	2
	September "	61°3	16°28	26	23	19	24	21	20	25	33	27	32	34	35	26	31	30	25	46	38	24	30	2	2	2	2	2	2
	December "	41°8	5°44	28	26	22	34	27	47	24	26	34	30	32	32	25	26	32	24	41	31	31	31	2	2	2	2	2	2
1	January	7	31°1	-0°50	34	29	21	37	37	40	31	38	35	60	41	30	43	34	30	24	25	37	32	39	3	3	3	3	3
2	"	14	33°0	0°56	32	30	20	38	34	30	39	33	29	47	32	32	28	31	32	27	25	24	22	36	3	3	3	3	3
3	"	21	37°1	2°84	32	30	13	31	27	24	38	32	29	54	31	33	29	27	27	34	29	30	27	33	3	3	3	3	3
4	"	28	32°4	0°22	29	26	23	21	28	27	28	34	31	49	31	31	27	24	29	22	33	21	23	39	3	3	3	3	3
5	February	4	34°9	1°61	30	27	16	29	30	25	30	31	20	50	33	25	33	28	31	22	36	23	27	42	3	3	3	3	3
6	"	11	41°6	5°33	30	28	19	24	20	38	26	24	27	48	35	25	32	28	23	19	26	31	29	39	3	3	3	3	3
7	"	18	42°7	5°95	29	26	24	19	26	30	26	26	26	46	31	30	28	25	27	21	22	28	26	36	4	3	3	3	3
8	"	25	43°8	6°55	27	26	17	19	24	17	22	23	16	48	23	23	24	24	24	21	31	27	21	33	3	3	3	3	3
9	March	4	45°7	7°61	27	25	16	21	24	24	23	21	23	38	27	25	21	22	26	21	33	33	27	37	3	3	3	3	3
10	"	11	46°3	7°94	27	26	16	26	23	15	26	31	21	44	29	25	24	25	21	27	27	23	20	35	3	3	3	3	3
11	"	18	41°7	5°39	26	25	19	23	23	25	23	27	21	40	26	19	23	25	22	17	29	30	27	31	3	3	3	3	3
12	"	25	47°1	8°39	28	27	17	22	21	22	29	21	25	44	28	22	24	24	30	24	33	33	24	39	3	3	3	3	3
13	April	1	43°8	6°55	26	25	17	18	20	17	23	25	22	38	29	27	18	24	22	23	25	27	35	2	2	2	2	2	2
14	"	8	48°1	6°17	26	24	21	25	21	18	24	27	21	40	31	23	21	20	23	22	30	19	33	2	2	2	2	2	2
15	"	15	48°3	9°05	29	28	21	27	23	27	28	19	24	41	31	27	30	25	29	31	36	40	33	41	2	2	2	2	2
16	"	22	50°0	10°00	27	25	20	22	17	19	22	16	24	38	27	29	27	27	25	20	34	25	38	3	3	3	3	3	3
17	"	29	50°7	10°39	26	23	18	21	22	23	24	20	16	35	29	31	25	32	24	21	17	33	29	26	2	2	2	2	2
18	May	6	49°7	9°83	26	24	23	17	18	18	23	23	22	37	26	24	31	23	26	20	27	37	30	33	2	2	2	2	2
19	"	13	47°6	8°66	25	21	20	21	19	12	25	18	10	34	30	3	23	24	27	17	29	28	31	35	2	2	2	2	2
20	"	20	50°1	10°06	25	24	17	16	15	29	25	21	16	31	29	34	26	21	27	22	26	30	28	33	2	2	2	2	2
21	"	27	56°7	13°72	25	22	25	21	18	19	24	23	17	34	29	33	22	24	31	22	36	35	27	36	2	2	2	2	2
22	June	3	53°9	12°17	24	22	19	18	20	18	23	15	17	29	31	34	20	21	20	23	30	29	28	36	2	2	2	2	2
23	"	10	49°9	9°94	25	23	15	21	18	19	23	23	19	34	31	38	26	23	24	25	33	38	22	34	2	2	2	2	2
24	"	17	59°5	15°28	24	22	15	23	17	12	21	24	19	27	31	25	26	19	22	26	41	29	23	35	2	2	2	2	2
25	"	24	56°2	13°44	23	21	14	19	18	24	19	21	19	27	28	25	23	22	24	21	40	31	33	33	1	1	1	1	1
26	July	1	56°6	13°66	23	21	13	14	21	17	20	16	17	29	27	24	21	19	24	20	51	28	29	33	2	2	2	2	2
27	"	8	60°5	15°83	21	19	16	12	17	13	19	19	16	26	26	25	24	19	19	15	43	30	21	34	2	2	2	2	2
28	"	15	61°7	16°50	22	20	12	14	19	10	23	23	19	27	27	28	21	19	24	22	48	25	26	28	1	1	1	1	1
29	"	22	65°5	18°61	23	21	18	18	19	11	18	20	22	30	26	28	16	21	25	15	47	33	24	35	1	1	1	1	1
30	"	29	60°4	15°78	24	23	11	12	22	13	20	27	30	27	30	36	15	21	22	37	37	25	33	2	2	2	2	2	2
31	August	5	60°3	15°72	23	22	15	21	24	18	18	21	18	28	29	24	20	23	23	38	30	28	30	13	1	1	1	1	1
32	"	12	68°3	20°17	26	25	19	21	20	9	20	29	26	30	34	31	21	29	33	17	51	39	21	32	1	1	1	1	1
33	"	19	67°1	19°50	30	27	22	30	26	20	27	40	32	37	38	44	24	38	36	27	49	45	27	34	1	1	1	1	1
34	"	26	63°0	17°22	31	27	19	34	23	22	28	46	31	38	41	43	33	42	44	36	44	51	29	30	1	1	1	1	1
35	September	2	64°0	17°78	35	24	21	31	20	20	33	44	34	44	43	44	29	37	35	25	50	51	21	27	1	1	1	1	1
36	"	9	60°5	15°83	27	23	20	25	19	24	31	38	28	34	42	44	33	36	31	31	44	45	21	26	2	2	2	2	2
37	"	16	62°6	17°00	28	23	22	39	24	35	31	40	34	44	41	41	31	43	36	31	51	41	19	25	2	2	2	2	2
38	"	23	53°6	12°00	27	23	27	29	20	31	30	41	31	36	34	32	36	36	34	25	49	28	26	26	2	2	2	2	2
39	"	30	50°2	10°11	26	22	23	26	22	34	23	34	31	30	33	32	31	34	31	32	47	36	25	28	2	2	2	2	2
40	October	7	51°9	11°03	25	21	23	32	25	33	28	28	29	30	35	37	22	34	29	26	41	33	25	28	2	2	2	2	2
41	"	14	45°5	7°50	25	20	19	22	33	25	27	28	31	30	34	23	27	27	26	40	37	31	32	33	2	2	2	2	2
42	"	21	53°5	11°95	24	21	23	31	27	40	24	28	26	31	30	35	23	25	29	19	33	30	27	28	2	2	2	2	2
43	"	28	43°9	8°23	23	22	18	27	25	29	14	25	24	28	27	20	19	28	18	42	30	23	28	2	2	2	2	2	2
44	November	4	47°3	8°50	24	22	18	23	25	44	18	17	19	25	27	30	20	24	27	21	41	28	28	25	2	2	2	2	2
45	"	11	39°2	4°00	24	22	17	25	32	36	20	21	25	27	25	27	19	21	29	27	36	25	29	28	2	2	2	2	2
46	"	18	35°3	1°84	27	26	23	37	26	43	25	22	26	28	32	25	26	25	29	22	42	32	25	30	2	2	2	2	2
47	"	25	34°3	1°28	30	30	26	42	29	50	25	22	377																

TABLE 3.—Deaths in 17 of the largest English Towns in the 52 Weeks ending 30th Dec. 1871.

(Estimated aggregate population in 1871, 6,207,870; viz., 3,263,872 in London, and 2,943,998 in the remaining 16 Towns.)

BOROUGHES, &c. (Municipal Boundaries for all except LONDON.)	DEATHS from ALL CAUSES.	The DEATHS registered in the 52 Weeks included											
		Under 1 Year of Age.	60 Years of Age and up- wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping- cough.	Fever.	Diarrhoea.	Violence.	Inquest Cases.	In Public Institutions.*
TOTAL in 17 LARGE TOWNS - - - }	164,419	43,113	29,906	13174	3422	4253	633	4326	4857	9993	5273	9433	24,261
LONDON - - -	80332	19201	15541	7876	1431	1896	313	2299	1746	3894	2594	4968	14589
PORTSMOUTH - -	2195	569	498	39	38	30	10	66	75	106	61	116	255
NORWICH - - -	2087	548	522	245	1	43	13	38	39	140	48	108	202
BRISTOL - - -	4246	1056	1004	45	61	173	19	59	116	172	142	214	675
WOLVERHAMPTON -	1914	490	338	284	26	23	4	56	54	70	53	71	227
BIRMINGHAM - -	8594	2554	1372	61	400	127	76	313	184	702	439	789	938
LEICESTER - - -	2569	948	471	11	30	112	6	22	76	309	49	126	189
NOTTINGHAM - -	2259	543	521	144	16	28	4	7	106	173	53	132	269
LIVERPOOL - - -	17375	4939	3128	1919	473	630	74	519	888	1127	672	942	2803
MANCHESTER - -	10959	2987	1703	267	305	260	11	212	377	979	316	721	1559
SALFORD - - -	3815	1134	484	227	160	60	12	113	85	359	84	171	304
BRADFORD - - -	3753	1166	601	5	8	144	19	112	134	252	113	178	219
LEEDS - - -	6889	2130	1147	43	99	108	24	147	331	659	177	283	548
SHEFFIELD - - -	6843	2031	947	406	159	325	16	176	221	547	159	274	501
HULL - - -	2841	793	524	57	88	65	2	26	105	179	98	115	281
SUNDERLAND - -	3608	891	518	850	58	190	16	72	221	128	90	103	341
NEWCASTLE-ON-TYNE -	4140	1133	537	695	69	39	14	89	99	197	120	172	461

* Exclusive of deaths in prisons.

TABLE 4.—Analysis of the Mortality in 17 of the largest English Towns in 52 Weeks ending 30th December 1871.

BOROUGHES, &c.	ANNUAL DEATH- RATE per 1000 from ALL CAUSES.	ANNUAL DEATH- RATE per 1000 from SEVEN PRINCIPAL ZYMOTIC DISEASES.	PER- CENTAGE OF DEATHS under 1 Year to Births Registered.	PER-CENTAGE OF DEATHS TO TOTAL DEATHS					
				Under 1 Year of Age.	At 60 Years of Age and upwards.	From Seven Z. motic Diseases.	From Violence.	Registered upon In- formation of the Coroner. (Inquests.)	Regi-tered in large Public Insti- tutions.
TOTAL in 17 LARGE TOWNS - - - }	26.5	6.5	19.2	26.2	18.2	24.7	3.2	5.8	14.8
LONDON - - -	24.7	6.0	17.1	23.9	19.3	24.2	3.2	6.2	18.2
PORTSMOUTH - -	19.3	3.2	14.4	25.9	22.7	16.6	2.8	5.3	11.6
NORWICH - - -	25.9	6.4	20.0	26.3	25.0	24.9	2.3	5.2	9.7
BRISTOL - - -	23.2	3.5	16.5	24.9	23.6	15.2	3.3	5.0	13.5
WOLVERHAMPTON -	23.0	7.6	18.5	25.6	17.7	27.0	2.8	3.7	11.9
BIRMINGHAM - -	24.9	5.4	19.0	29.7	16.0	21.7	5.1	9.2	10.9
LEICESTER - - -	26.8	5.9	24.1	36.9	18.3	23.0	1.9	4.9	7.4
NOTTINGHAM - -	26.0	5.5	18.7	24.0	23.1	21.2	2.6	5.8	11.9
LIVERPOOL - - -	35.1	11.4	26.9	28.4	18.0	32.4	3.9	5.4	16.1
MANCHESTER - -	31.2	6.9	22.1	27.3	15.5	22.0	2.9	6.6	14.2
SALFORD - - -	30.4	8.1	22.1	29.7	12.7	26.6	2.2	4.5	8.0
BRADFORD - - -	25.5	4.6	20.9	31.1	16.0	18.0	3.0	4.7	5.8
LEEDS - - -	26.4	5.4	20.5	30.9	16.6	20.5	2.6	4.1	8.0
SHEFFIELD - - -	28.3	7.7	20.8	29.7	13.8	27.0	2.3	4.0	7.3
HULL - - -	25.2	4.3	17.7	27.9	18.4	18.4	3.4	4.0	9.9
SUNDERLAND - -	36.5	15.5	22.2	24.7	14.4	42.5	2.5	2.9	9.5
NEWCASTLE-ON-TYNE -	32.2	9.3	22.3	27.4	14.2	29.0	2.9	4.2	11.1

TABLE 5.—Population; Births and Deaths during the Year 1871 in Fifty large Town Districts.
(in addition to the Cities and Boroughs given in Tables 1-4).

District Num- ber.	TOWNS.	ESTIMATED POP- ULATION in the middle of the year 1871.	REGISTERED during 1871.		ANNUAL RATE to 1,000 living during the Year 1871.			DISTRICTS and SUB-DISTRICTS, taken as approximately representing the several Towns.
			Births.	Deaths.	Births.	Deaths.	Deaths from 7 Zymotic Diseases.	
	TOTAL OF 50 TOWNS -	2,520,454	92,062	62,516	36.5	24.8	5.3	Total of the under-mentioned Districts and Sub-districts.
	II.—SOUTH EASTERN COS.							
45	Chatham - - - P -	59,166	2,043	1,159	34.5	19.6	2.6	Entire District of Medway.
49	Maidstone - - - M -	26,283	796	526	30.3	20.0†	3.4	West and East Sub-districts.
63	Dover - - - M -	35,111	1,132	685	32.2	19.5	3.1	Entire District.
76	Brighton - - - M -	90,345	2,747	2,037	30.4	22.5	3.5	Entire District.
88	Gosport - - - Town -	22,638	786	568	34.7	24.6	5.1	Entire District of Alverstoke.
96	Southampton - - - M -	48,169	1,505	1,383	31.2	28.7	10.1	Entire District.
118	Reading - - - M -	33,542	1,174	686	35.0	20.5	3.2	Entire District.
	III.—SOUTH MIDLAND COS.							
149	Oxford - - - M -	39,181	1,219	876	31.1	22.4	4.4	Entire District, and St. Clement Sub-district of Headington.
159	Northampton - - - M -	47,644	1,825	1,062	38.3	22.3†	4.8	St. Giles & All Saints Sub-districts.
178	Cambridge - - - M -	30,173	964	675	31.9	22.4	3.9	Entire District.
	IV.—EASTERN COUNTIES.							
195	Colchester - - - M -	26,428	856	557	32.4	21.1	3.6	Entire District.
213	Ipswich - - - M -	42,952	1,375	1,017	32.0	23.7	3.7	Entire District.
219	Yarmouth - - - M -	43,890	1,446	1,002	32.9	22.8	5.1	Entire District and Gorleston (Mutford) Sub-district.
	V.—SOUTH WESTERN COS.							
272	Exeter - - - M -	34,671	1,116	884	32.2	25.5	2.1	Entire District.
277	Plymouth - - - M -	68,223	2,173	1,636	31.9	24.0	5.4	Entire District.
278	East Stonehouse - - -	14,582	587	419	40.2	28.7	6.9	Entire District.
279	Devonport - - - M -	50,985	1,641	1,124	32.8	22.4	5.8	Entire District of Stoke Damerel.
317	Bath - - - M -	54,482	1,437	1,246	26.4	22.9	2.5	Bathwick, Abbey, Lyncombe, Wal- cot, and Lansdown Sub-districts.
	VI.—WEST MIDLAND COS.							
335	Cheltenham - - - P -	41,980	1,150	729	27.4	17.4†	1.8	Cheltenham Sub-district.
352	Shrewsbury - - - M -	27,284	821	575	30.1	21.1†	2.9	Entire District.
364	Stoke-upon-Trent - - P -	144,892	6,452	4,381	44.5	30.2	8.3	Entire Dis. of Stoke-on-Trent and Tun- stall, Burslem Sub-dis. (Wolstanton).
373	Walsall - - - M -	49,096	2,049	1,081	41.7	22.0†	4.4	Boxwich & Walsall Sub-districts.
375	Dudley - - - P -	43,761	1,928	1,072	44.1	24.5†	5.0	Dudley Sub-district.
380	Worcester - - - M -	32,426	1,061	764	32.7	23.6	3.7	Entire District.
393	Coventry - - - M -	40,071	1,332	1,061	33.2	26.5	8.1	Entire District.
	VII.—NORTH MIDLAND COS.							
421	Lincoln - - - M -	31,074	1,092	709	35.1	22.8†	3.4	Home Sub-district.
438	Derby - - - M -	62,644	2,360	1,351	37.7	21.6	3.0	Entire District.
	VIII.—NORTH WESTERN COS.							
445	Stockport - - - M -	59,855	2,144	1,538	36.4	26.1†	5.0	Heaton Norris and Stockport, 1st and 2d Sub-Districts.
446	Macclesfield - - - M -	33,707	1,036	866	32.2	25.7	2.6	East and West Macclesfield and Sutton Sub-districts.
452	Chester - - - M -	45,953	1,635	951	35.0	20.4†	3.4	Castle and Cathedral Sub-districts.
454	Birkenhead - - - P -	64,918	2,463	1,653	37.9	25.5	6.9	Birkenhead and Tranmere Sub-districts.
459	Wigan - - - M -	39,198	1,819	1,147	46.4	29.3†	8.3	Wigan Sub-district.
462	Bolton - - - M -	80,652	3,168	2,276	39.3	28.2†	6.2	Little, Eastern, and Western Bolton Sub-districts.
463	Bury - - - P -	44,901	1,696	1,224	37.8	27.3†	6.9	South and North Bury and Elton Sub-districts.
468	Ashton-under-Lyme - M -	31,382	1,122	797	35.8	25.4†	4.5	Ashton Town Sub-district.
469	Oldham - - - M -	82,894	3,073	2,061	37.1	24.9†	3.8	Below & Above Town Sub-districts.
470	Rochdale - - - M -	36,746	1,300	918	35.4	25.0†	4.9	Castleton within and Wardleworth Sub-districts.
474	Blackburn - - - M -	76,701	3,166	1,980	41.3	25.8†	3.9	Blackburn Sub-district.
476	Preston - - - M -	85,490	3,438	2,646	40.2	31.0†	6.7	Preston Sub-district.
	IX.—YORKSHIRE.							
494	Huddersfield - - - P -	38,758	1,302	960	33.6	24.8†	5.6	Huddersfield Sub-district.
495	Halifax - - - M -	47,583	1,649	1,120	34.7	23.5†	3.9	Halifax Sub-district.
515	York - - - M -	56,073	1,715	1,226	30.6	21.9†	3.2	Bootham, Micklegate, and Walm- gate Sub-district.
	X.—NORTHERN COUNTIES.							
551	South Shields - - - M -	75,390	3,319	2,513	44.0	35.3	12.8	Entire District.
552	Gateshead - - - M -	43,226	2,058	1,539	42.7	31.9	9.8	Gateshead Sub-district.
554	Tynemouth - - - M -	40,800	1,451	1,049	35.6	25.7	7.0	North Shields and Tynemouth Sub-districts.
569	Carlisle - - - M -	33,935	1,260	788	37.1	23.2†	5.9	St. Cuthbert & St. Mary Sub-dist.
	XI.—MONMOUTHSH. & WALES.							
582	Newport (Monmouth) - M -	30,025	1,065	847	35.5	28.2†	7.8	Newport Sub-district.
583	Cardiff - - - M -	64,983	2,395	1,353	36.9	20.8†	4.5	Cardiff Sub-district.
585	Merthyr Tydfil - - - P -	95,119	3,952	2,313	41.5	24.3	5.2	Lower and Upper Merthyr Tydfil and Aberdare Sub-districts.
588	Swansea - - - M -	67,362	2,719	1,496	40.4	22.2	4.0	Swansea & Llanafeleach, and Llansamlet (Neath) Sub-dist.

Note.—The letter M or P affixed to the name of each Town denotes whether the limits, which the districts or sub-districts in the last column approximately represent, are Municipal or Parliamentary.

† The figures in this column are the unrevived numbers enumerated at the Census in April 1871, raised to the middle of the year by the addition of 1-40th of the rate of increase which prevailed between 1861 and 1871. A decrease of population between 1861 and 1871 was shown in Gosport, Devonport, Dudley, Coventry, Macclesfield, and Ashton-under-Lyme; in these instances the enumerated population has been proportionally depressed.

† These rates of mortality have been corrected by the exclusion of a proportional number of deaths occurring in County Hospitals and Lunatic Asylums, situate within the districts or sub-districts here taken as representing the town, or by the exclusion or addition of a proportion of the deaths in Union Workhouses in cases where a portion of the Union only is embraced by the area taken, or where the Workhouse is situated outside that area.

TABLE 6.—Numbers of Males and Females at different Ages in London, as found on 8th April 1861.

(The ages of the population as enumerated in April 1871 are not yet available.)

ALL AGES.		Under 5 Years.	5—	10—	15—	20—	25—	30—	35—	40—	45—	50—	55—	60—	65—	70—	75—	80—	85—	90—	95—	100 & upwards.
Both Sexes.	Males and Females.																					
303,989	M. 1,307,781	180,893	149,835	130,799	112,949	122,548	111,668	102,755	88,366	82,068	62,782	51,497	34,985	30,458	17,614	12,241	6,133	2,706	779	183	38	4
	F. 1,496,208	181,403	150,924	133,550	139,206	154,841	140,367	122,012	102,151	93,832	71,408	61,231	43,202	40,878	25,322	18,862	10,061	4,821	1,615	412	93	17

NOTE.—In England the proportion of Females in the population to Males in 1861 was nearly as 105 to 100; in London it was as 4 to 100. The excess of Females was apparent in each quinquennium.

TABLE 7.—Births and Deaths in London in the Fifteen Years 1857 to 1871.

YEARS.		1857 (53 weeks)	1858	1859	1860	1861	1862	1863 (53 weeks)	1864	1865	1866	1867	1868 (53 weeks)	1869	1870	1871
BIRTHS . . .		91048	88620	92556	92825	96389	97418	103897	102187	106722	107092	112264	115744	111930	113499	112535
DEATHS* . . .		60150	63882	61617	61821	65001	66950	72346	77723	73460	80129	70588	74908	77933	77278	80332
Excess of BIRTHS over DEATHS . }		30898	24738	30939	31004	31388	30468	31551	24464	33262	27863	41676	40836	33997	36221	32203
BIRTHS .	Males .	46770	45220	47189	47422	49076	49187	53225	52207	54110	54956	57402	58838	56876	58031	57034
	Females .	44278	43400	45367	45403	47313	48231	50672	49980	52612	53036	54862	56906	55054	55468	55501
DEATHS .	Males .	30399	32563	31451	31486	33014	34133	37024	39353	37569	40978	36276	38390	39812	39730	40685
	Females .	29751	31319	30166	30335	31987	32817	35322	38370	35891	39151	34312	36518	38121	37548	39647
DEATHS in FIVE GROUPS of DISTRICTS :—																
West . . .		8992	9500	9270	9793	10125	10273	11190	11972	11331	11499	11244	12066	12004	13097	12665
North . . .		12464	13296	12851	12787	13809	13889	15673	16685	16405	17301	16138	16529	17059	17394	19295
Central . . .		9727	9659	9532	9061	9682	9854	10270	10857	9968	9770	8804	8983	9149	8748	8201
East . . .		13584	14121	13270	13479	13741	15007	15871	17172	15881	20574	14818	16067	17506	15813	16702
South . . .		15383	17306	16694	16701	17644	17927	19342	21037	19785	20985	19584	21263	22215	22226	23379

* The deaths in this Table are compiled from the Weekly Returns, which embrace 364 days, and in three years 371 days; and for this reason the figures for all the years previous to 1871 differ from the numbers in 23 Districts (on page xxvi), which are, except those for 1871, derived from the returns for complete years, from 1st January to 31st December.

TABLE 8.—Area and Population of London and its REGISTRATION SUB-DISTRICTS; 1801-71.

	AREA in Acres.*	DENSITY, Persons to an Acre, 1871.	POPULATION enumerated at the Censuses in						DECENNIAL Increase or Decrease per Cent.		
			1801.	1821.†	1841.‡	1851.	1861.	1871.	1841-51.	1851-61.	1861-71.
LONDON - -	78,080	42	958,863	1,378,947	1,948,417	2,362,236	2,803,089	3,254,230 ^s	21·2	18·7	16·1
WEST DISTRICTS -	10,778	52	142,491	197,886	292,100	369,122	458,125	561,359	26·4	24·1	22·5
NORTH DISTRICTS -	13,498	46	124,508	222,722	375,471	406,396	618,210	751,729	30·4	26·1	21·6
CENTRAL DISTRICTS -	2,235	150	391,034	353,254	382,214	400,761	383,321	334,369	4·8	-4·3	-12·8
EAST DISTRICTS -	5,943	107	178,635	271,323	392,444	485,522	571,153	639,111	23·7	17·6	11·9
SOUTH DISTRICTS -	45,601	21	212,145	333,236	502,518	616,635	773,175	967,632	22·7	25·4	26·2
WEST DISTRICTS.											
1.—KENSINGTON.											
St. Mary Paddington -	806	73	1881	6476	6436	17252	39015	58728	163·1	126·1	50·5
St. John Paddington -	445	86			18737	29053	37769	36045	55·1	26·6	8·6
Ken-ington Town -	1497	61	8556	14423	17349	29183	51910	91645	68·0	77·9	76·5
Brompton -	693	41			9405	14870	18193	24654	57·1	22·4	57·5
St. Peter Hammersmith -	202	33	5600	8800	3535	4447	5415	6662	25·3	21·2	23·0
St. Paul Hammersmith -	2117	17	4123	6192	9888	13243	19104	30029	34·4	43·7	48·6
Fulham -	1890	12			9819	11886	15539	23350	27·6	30·7	50·3
2.—CHELSEA.											
Chelsea South -	839	72	11004	23800	14467	19070	21674	23430	31·7	13·7	22·0
Chelsea North-west -	209	111			13078	17639	19809	23277	39·8	12·6	17·0
Che sea North-east -	283	76			13074	19319	21886	21392	61·6	10·4	-2·3
3.—ST. GEO. HANOVER SQ.											
Hanover Square -	439	43	38440	46384	21393	20216	19773	18698	-5·5	-2·2	-5·4
May Fair -	137	95			15048	12980	12885	13007	-13·7	-7·7	-9·9
Belgrave -	684	99	8375	16835	30106	40034	55113	57972	33·0	37·7	5·2
St. John -	238	149	8375	16835	26223	34295	37483	38478	30·8	9·3	2·7
St. Margaret -	633	44	17508	22668	30489	81314	30730	27761	2·7	-1·9	-9·0
4.—WESTMINSTER.											
St. James's Square -	84	125	84462	33819	18337	11469	10753	10472	-14·0	-6·2	-2·6
Golden Square -	64	238			13012	14139	13996	12800	3·9	-1·2	-7·9
Berwick-street -	24	429	11637	15215	10449	10798	10807	10237	3·3	-1·8	-3·0
St. Anne Soho -	54	325			10449	10798	10807	10237	6·2	-7·6	-1·8
NORTH DISTRICTS.											
5.—MARLBORNE.											
All Souls -	112	215	63982	93040	27003	28841	299·2	28579	-6·8	3·9	-4·6
Cavendish Square -	112	138			15192	14637	15060	15425	-3·3	2·7	2·2
Rect ry -	227	316	109	2108	26714	27633	27608	26384	3·4	-3·4	-1·2
St. Mary -	108	202			2108	2814	24493	21786	3·8	-4·4	-3·1
Christchurch -	513	66	545	61	24011	33895	34913	33944	17·2	3·0	-2·8
St. John -	545	61			18356	29826	32340	33136	62·5	9·1	1·8
6.—HAMPTSTEAD.											
Hamptstead -	2243	14	4343	7263	10063	11986	19106	32281	13·8	59·4	69·0
7.—PANCRAEAS.											
Regent's Park -	419	91	81770	71833	26488	31918	34927	38200	20·5	9·4	9·4
Tottenham-court -	114	204			26400	28438	23871	26570	6·1	8·3	0·0
Gray's Inn Lane -	154	100	183	211	22119	26523	27808	29221	19·7	4·8	5·1
Somers Town -	183	211			28910	35641	39099	38533	21·3	9·7	-1·4
Camden Town -	170	146	1602	43	15018	21115	23266	17943	40·6	10·2	-22·0
Kentish Town -	1602	43			10398	23326	44317	68198	124·3	90·0	53·9
8.—ISLINGTON.											
Islington West -	1296	60	10212	22417	25396	47481	75442	97820	88·5	87·6	29·7
Islington East -	1851	62			80294	47448	73599	115958	86·6	68·4	45·1
9.—HACKNEY.											
Stoke Newington -	638	15	1462	2670	4490	4840	6608	9841	7·3	36·5	48·9
Stamford Hill -	613	11			5140	5549	6443	6594	8·0	-1·2	20·3
West Hackney -	447	60	12780	22404	11108	18732	24265	28169	68·6	29·5	15·7
Hackney -	1795	28			14674	20850	31481	50104	42·5	51·0	59·2
South Hackney -	422	72			6889	8458	15458	30339	22·8	82·8	96·3
CENTRAL DISTRICTS.											
10.—ST. GILES.											
St. George Bloomsbury -	122	145	7736	16110	16981	16307	17392	17853	-1·0	3·5	2·7
St. Giles South -	64	239	26764	35683	19574	19951	19483	19109	1·6	-2·3	-1·0
St. Giles North -	59	231			17677	17456	17201	16594	-1·3	-1·5	-3·5
11.—STRAND.											
Long Acre -	38	209	27437	28893	11792	12053	11618	11479	2·2	-3·6	-2·1
Charing Cross -	258	38			18299	12587	11071	9859	-5·4	-12·0	-10·0
St. Mary-le-Strand -	64	147	20282	26127	11732	11615	10346	9378	-1·0	-10·9	-9·4
St. Clement Dances -	73	147			15354	15467	16207	10723	7	-1·7	-29·5
12.—HOLBORN.											
St. George-the-Martyr -	104	197	22820	27100	17407	18613	19903	20521	8·1	5·8	3·1
St. Andrew Eastern -	33	410			12613	13971	12947	13529	10·8	-7·3	4·5
Saffron Hill -	60	151	11796	14154	14441	13837	12012	91666	-4·2	-13·2	-24·5
St. James Clerkenwell -	73	259			19417	21529	19152	18917	10·9	-11·0	-1·2
Amwell -	83	203	23396	59105	18490	17320	17250	16884	16·5	9·7	-2·1
Pentonville -	133	100			9522	11904	13079	13837	25·0	9·9	2·0
Goswell-street -	91	178	26881	40876	14327	15025	16200	16242	9·1	3·7	-3
Old-street -	51	238			9841	10617	11504	12161	7·9	8·4	6·7
City-road -	76	64			14711	16840	17860	18301	14·5	6·1	2·5
Whitecross-street -	33	418			12943	13677	14778	13792	5·4	8·2	-6·7
Finbury -	79	136			12314	12941	12941	10741	6·1	-0·1	-16·9
13.—LONDON CITY.											
St. Botolph -	83	175	19003	19207	20194	23824	20990	14540	16·3	-11·9	-30·7
Cripplegate -	66	207	16828	18499	19151	20382	19997	13638	7·4	-4·3	-30·8
St. Sepulchre -	48	158	11889	12025	12682	12946	11750	7562	2·1	-9·2	-35·0
St. Bride -	93	129	16833	18115	16492	15887	15305	11185	-3·7	-3·1	-29·3
Castle Bynard	69	64	8737	8654	8939	9204	7732	4435	4·1	-15·7	-43·0
Christchurch -	73	86	15852	14120	12427	11847	9039	6370	-4·7	-23·0	-30·6
Queenhithe -	142	47	14015	11668	11954	11451	8670	4753	-4·1	-25·2	-44·5
Allhallows Barking -	102	57	13311	11048	10597	10494	8659	8764	0·0	-18·3	-31·4
Broad-street -	95	83	12910	11939	12103	12826	11544	7845	6·0	-10·0	-32·0

* These Areas have recently been supplied to the Registrar General by the Ordnance Department, and differ from those hitherto published; they include 718 acres of tidal water, or river Thames.
† The population of London in 1821 includes 521 militiamen on duty, who were not returned in any sub-districts.
‡ The population of London in 1841 includes 309 of the police, who were not returned in any sub-districts.
§ The figures here given for 1871 are "revised" numbers, and will be found to differ from the "unrevised" numbers hitherto published.

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TABLE 8.—Area and Population of London and its REGISTRATION SUB-DISTRICTS; 1801-71.—*continued.*

	AREA in Acres.	DENSITY, Persons to an Acre, 1871.	POPULATION enumerated at the Censuses in						DECENNIAL Increase or Decrease per Cent.				
			1801.	1821.	1841.	1851.	1861.	1871.	1841-51.	1851-61.	1861-71.		
EAST DISTRICTS.													
14.—SHOREDITCH.													
Holywell - - - -	67	188	34760	52906	16722	17245	17313	12420	3 1	4	-28.2		
St. Leonard - - -	74	224			17976	19449	19183	16545	8.2	-1.3	-13.8		
Hoxton New Town -	132	211			16751	22505	26 16	27835	49.2	12.8	5.0		
Hoxton Old Town -	117	230			17994	17381	23777	20333	24.6	47.9	4.5		
Haggerstone We-t	121	184			12013	26276	2 20	24162	68.8	14.7	3.9		
Haggerstone East -	127	152			6976	11.51	17310	19259	62.7	52.5	11.3		
15.—BETHNAL GREEN.													
Hackney-road - - -	141	212	22310	11736	11636	20031	23910	26298	19.4	10.0	13.4		
Green - - - - -	103	300			9635	167.6	32.35	31759	42433	40.5	35.0	33.6	
Church - - - - -	131	203			12619	17.93	23528	23777	20.0	17.2	4.1		
Town - - - - -	93	229								4.7	2.6	-1.0	
16.—WHITECHAPEL.													
Artillery - - - -	25	266	57202	68932	6221	6769	6537	6651	8.8	-3.1	1.4		
Sp. Fields - - - -	52	305			15121	18336	15700	15843	1.4	2.4	.9		
Mile End New Town -	58	268			12141	14543	15302	15550	19.8	5.8	1.0		
Whitechapel North -	59	197			12296	12530	12122	11597	1.9	-3.3	-4.3		
Whitechapel Church -	46	159			6990	7 18	8062	7322	11.8	3.1	-0.2		
Goodman's Fields - -	51	204			9848	12 19	11166	10381	22.6	-7.5	-7.0		
Adgate - - - - -	114	81			9143	10094	9971	9224	16.9	-0.8	-7.5		
17.—ST. GEO. IN-THE-EAST.													
St. Mary - - - - -	62	289	21170	32528	18875	18667	18181	17900	13.8	.6	-1.5		
St. Paul - - - - -	84	254			17724	20819	21015	21250	14.6	3.4	1.6		
St. John - - - - -	48	90			7751	99 0	9095	8862	28.9	-3.0	-0.2		
18.—STEPNEY.													
Shadwell - - - - -	177	66	14717	19635	14158	16179	12337	11640	14.2	-22.5	-7.2		
Ridgely - - - - -	132	129	6696	6973	11874	15212	16854	16131	28.1	10.9	-4.4		
Limehouse - - - -	200	115	4678	9805	19337	22752	27161	29919	17.8	19.2	10.2		
19.—MILE END OLD TOWN.													
Mile End Old Town West.	189	202	9648	22876	25570	29582	33747	34128	15.7	14.1	13.0		
Mile End Old Town East.	490	112			16738	27202	39817	51204	36.9	45.5	39.9		
20.—POPLAR.													
Row - - - - -	1184	57	3785	6709	10780	18778	35667	67665	74.2	89.9	90.0		
Poplar - - - - -	1434	33	4493	12223	20342	2-384	43529	48 111	39.5	53.4	11.7		
SOUTH DISTRICTS.													
21.—ST. SAVIOUR SOUTHWK.													
Christchurch Southwark -	98	149	9933	13339	14616	16022	17069	14573	9.8	6.5	-14.6		
St. Saviour Southwark -	156	100	15596	16808	18359	19746	19191	15277	7.4	-3.1	-17.0		
Kent-road - - - -	106	198	22293	36363	15671	18123	19672	24221	15.7	8.4	3.6		
Borough-road - - -	64	261			14714	1862	1 6 8	166.65	7.2	5.1	.2		
Landon-road - - -	117	162			16179	17836	19190	18501	10.2	7.6	-1.2		
Trinity Newington -	146	162			19004	20922	22875	23682	9.7	8.4	4.4		
St. Peter Walworth -	319	151			22299	29661	44163	48488	28.2	48.9	8.5		
St. Mary Newington -	167	101	12243	14033	16082	16792	14.6	7.5	11.3				
22.—ST. OLAVE SOUTHWK.													
St. Olave Southwark -	74	59	9924	10227	9172	8015	7663	4373	-12.6	-4.4	-42.0		
St. John Horsleydown -	94	112	8892	9163	10665	11330	11383	10300	6.5	.8	-7.6		
Leather Market - -	98	181			12 75	15295	16096	16787	19.7	9.2	.5		
St. Mary Magdalen -	142	111	17169	23235	9721	13334	16 05	15799	43.3	18.5	-4.8		
St. James Bermondsey	417	115			12451	16899	25154	4 933	51.8	33.1	90.6		
Kot. Erithie - - - -	905	34	10296	12523	13617	17605	24502	27096	27.9	37.6	10.6		
*23.—LAMBETH.													
Waterloo-road 1st -	90	166	27985	57638	12767	14098	15269	14074	10.3	6.4	-9.8		
Waterloo-road 2nd -	142	130			173 9	18348	14640	14465	6.9	1.6	-7.0		
Lambeth Church 1st -	208	94			14604	18 09	19839	19 02	-	2	7.8	1.7	
Lambeth Church 2nd -	186	193			229 1	26784	29542	33533	10.8	10.3	21.1		
Kennington 1st - - -	497	83			17235	24261	39785	41286	40.8	26.9	34.3		
Kennington 2nd - - -	498	63			14034	18448	20410	31221	34.1	8.4	52.7		
Brixton - - - - -	1423	25			10175	14610	20667	35135	43.6	57.4	76.6		
Norwood - - - - -	1009	12			2931	5977	7422	12536	34.3	87.6	68.0		
24.—WANDSWORTH.													
Clapham - - - - -	1137	24			3864	7151	12106	16290	20894	27347	34.6	26.3	30.9
Ridgely - - - - -	232	23	3365	4734	6617	10500	19100	54015	50.6	35.6	135.6		
Wandsworth - - - -	2488	8	4445	6702	7614	9611	13346	19734	20.2	88.6	48.2		
Putney - - - - -	2273	4	2478	3894	4684	5280	6481	9 839	12.7	22.7	45.6		
Streatham - - - - -	3480	4	3546	5479	8834	9023	1 062	14475	2.1	11.7	4.6		
25.—CAMBERWELL.													
Dulwich - - - - -	1450	8	7059	17676	1904	1632	1728	4041	-14.3	5.6	134.5		
Camberwell - - - -	1378	23			14176	17742	21267	31234	25.2	2.0	46.8		
Peckham - - - - -	1175	36			12563	19444	26135	4 160	64.8	44.7	49.8		
St. George - - - - -	447	76			11225	13849	20333	33651	41.2	28.3	60.5		
26.—GREENWICH.													
St. Paul Deptford - -	1801	34	11349	14481	18664	24890	37334	53714	33.4	51.9	42.0		
St. Nicholas Deptford	148	44	6933	6337	8963	7071	8139	6474	1.7	15.1	-25.5		
Greenwich West - - -	331	63	14339	20712	16532	18360	21364	15764	13.6	15.4	-3.1		
Greenwich East - - -	1715	11			13043	16228	18306	19 78	24.4	12.8	6.9		
27.—LEWISHAM.													
Eltham - - - - -	4494	1	1702	1977	2310	2593	30 9	4330	11.2	17.2	50.8		
Lee - - - - -	1608	10			6341	8018	11093	16440	26.4	37.2	49.4		
Lewisham Village - -	3781	3	4.83	8922	6380	6097	7372	11513	13.3	20.9	55.2		
Sydenham - - - - -	1623	12			2915	4501	10595	19015	54.4	135.4	79.9		
28.—WOOLWICH.													
Charlton - - - - -	2056	5	805	1699	3252	5278	9276	9564	62.3	75.7	3.1		
Woolwich Dockyard -	503	34			12418	17140	22919	17226	38.0	33.7	-24.8		
Woolwich Arsenal - -	1001	18	9826	17008	13367	15227	18776	18831	13.9	23.3	-2.4		
Plumstead West - - -	349	7	1166	2386			11362	15027			15.0		
Plumstead East - - -	3372	3					13170	15232		197.3	192.6	15.7	

TABLE 9.—Annual Rate of Mortality, 1840–1871, in **Five Groups of Metropolitan Districts.**

	LONDON.	WEST DISTRICTS.	NORTH DISTRICTS.	CENTRAL DISTRICTS.	EAST DISTRICTS.	SOUTH DISTRICTS.
Area in Square Miles	122.0	16.8	21.0	3.5	9.3	71.4
Decennial Increase of Po- pulation per Cent., 1861–71 }	16.1	22.5	21.6	-12.8 (decrease).	11.9	25.2
Enumerated Population, } 1871	3,254,260	561,359	751,729	334,369	639,111	967,692
YEARS.	ANNUAL RATE OF MORTALITY PER 1000.					
1840	25.0	24.1	23.9	24.5	25.7	25.9
1841	24.0	22.4	22.4	25.0	25.1	24.4
1842	23.5	22.6	22.6	23.6	24.4	23.9
1843	24.7	23.3	23.1	25.3	26.4	24.8
1844	25.0	23.9	23.3	24.4	25.9	25.6
1845	23.2	22.5	21.0	24.0	24.6	23.8
1846	23.3	21.6	21.9	22.9	24.1	24.6
1847	27.0	24.5	25.4	27.9	29.4	27.7
1848	25.8	23.6	23.4	25.3	28.7	27.2
1849	30.1	26.1	23.7	27.9	31.8	37.6
1850	21.0	19.6	19.8	21.1	21.7	21.9
1851	23.4	22.0	22.3	24.1	24.3	24.0
1852	22.6	21.5	21.2	23.9	23.3	23.0
1853	24.4	22.3	22.4	25.1	26.5	25.3
1854	29.4	28.5	24.4	27.4	30.0	34.8
1855	24.3	23.0	23.3	25.1	25.5	24.6
1856	22.1	21.5	21.1	23.0	23.3	21.8
1857	22.4	21.2	21.5	23.8	24.3	21.5
1858	23.9	22.4	22.9	24.5	25.8	24.0
1859	22.7	21.4	21.7	24.1	24.0	22.6
1860	22.5	22.2	21.2	23.3	24.1	22.1
1861	23.2	22.1	22.3	25.4	24.0	22.8
1862	23.6	22.0	22.0	26.3	26.0	22.7
1863	21.5	23.0	23.8	27.1	26.5	23.3
1864	26.6	24.6	25.4	30.0	29.0	25.4
1865	24.6	22.7	24.5	27.5	26.4	23.2
1866	26.5	22.6	25.3	27.5	34.0	24.1
1867	23.0	21.8	23.1	25.1	24.2	22.0
1868	23.6	22.3	22.9	25.6	25.6	22.9
1869	24.6	22.2	23.5	26.8	28.0	23.9
1870	24.1	23.8	23.6	26.1	25.1	23.5
1871	24.7	22.5	25.6	25.0	26.2	24.1
Average Number living } to One Death annually } (1840–70)	41	44	44	40	38	41

NOTE.—The populations upon which these rates of mortality have been calculated are deduced from the numbers enumerated at the four Censuses of 1841, 1851, 1861, and 1871. The deaths used for the 31 years 1840–70 are for the complete years, while those for 1871 are the numbers registered in the 52 weeks ending 30th December in that year; the 1871 rates have therefore been corrected for the difference between 365/2422 days and the 364 days included by those 52 weeks.

Certain alterations affecting the West and Central groups of districts were made in the year 1869, but no corrections have been made in the results given in this Table for years prior to 1861.

Mean Rate of Mortality PER 1000.

YEARS.	LONDON.	WEST DISTRICTS.	NORTH DISTRICTS.	CENTRAL DISTRICTS.	EAST DISTRICTS.	SOUTH DISTRICTS.
MEAN OF 31 YEARS.						
1840–1870	24.3	22.8	22.9	25.3	26.1	24.7
MEANS OF 10 YEARS.						
1840–9	25.2	23.5	23.1	25.1	26.6	26.6
1850–9	23.6	22.3	22.1	24.2	24.9	24.4
1860–9	24.3	22.6	23.4	26.5	26.8	23.2
MEANS OF 5 YEARS.						
1840–4	24.4	23.3	23.1	24.6	25.5	24.9
1845–9	25.9	23.7	23.1	25.6	27.7	23.2
1850–4	24.2	22.8	22.0	24.3	25.2	24.4
1855–9	23.1	21.9	22.1	24.1	24.6	25.8
1860–4	24.1	22.8	22.9	26.4	25.9	22.9
1865–9	24.5	22.3	23.9	26.5	27.6	23.3

TABLE 10.—Deaths in London, from All Causes, REGISTERED in the YEARS 1859-1871.

Class.	MEAN TEMPERATURE -	50°·7	47°·0	49°·4	49°·5	50°·3	48°·5	50°·3	49°·8	48°·6	51°·6	49°·5	48°·7	48°·7	1871.			
		QUARTER ENDING													Apr. 1	July 1	Sept. 30	Dec. 30
	YEARS - - -	1859	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	1871				
	CAUSES OF DEATH.	364 Days	364 Days	364 Days	364 Days	371 Days	364 Days	364 Days	364 Days	364 Days	371 Days	364 Days	364 Days	364 Days	91 Days	91 Days	91 Days	91 Days
	ALL CAUSES . .	61617	61821	65001	66950	72346	77723	73460	80129	70588	74008	77933	77278	80332	21889	18815	18657	20991
	SPECIFIED CAUSES .	60872	61148	64288	66075	71665	76872	72551	79446	69757	74234	77406	76831	80069	21800	18696	18581	20632
	(CLASSES.)																	
I.	ZYMOTIC DISEASES	16758	13001	15710	17869	21005	20051	18058	23680	15027	18893	20885	20634	22878	5547	5755	6781	4795
II.	CONSTITUTIONAL "	12455	12523	13082	12903	13518	14237	14415	14861	14063	14621	14442	14437	14022	3552	3469	3474	3527
III.	LOCAL "	22077	26246	23569	25423	26738	31376	28826	29755	29206	29338	31334	31270	32071	9692	6931	5486	5962
IV.	DEVELOPMENTAL "	6959	7240	7680	7671	7874	8673	8606	8604	8912	8815	8397	8514	8444	2293	1919	2205	2027
V.	VIOLENT DEATHS -	2023	2138	2247	2209	2530	2535	2646	2543	2549	2567	2348	2576	2594	716	622	635	621
	(ORDERS.)																	
I.	1. Miasmatic Diseases -	15508	11923	14459	16678	19680	18673	16539	22203	13566	17323	19425	18611	21518	5231	5470	6365	4451
	2. ENTHETIC " -	336	322	390	843	397	418	441	457	480	529	549	517	417	112	95	104	106
	3. DIETIC " -	762	661	720	706	767	804	880	836	726	807	710	726	778	175	160	246	197
	4. PARASITIC " -	152	95	141	142	152	156	198	184	255	234	201	180	165	29	30	65	41
II.	1. DIATHETIC " -	2153	2148	2258	2329	2421	2502	2483	2466	2398	2522	2527	2665	2506	666	606	608	626
	2. TUBERCULAR " -	10302	10375	10824	10574	11067	11735	11932	12398	11665	12099	11915	11772	11516	2886	2863	2866	2901
III.	1. DISEASES OF NERVOUS SYSTEM -	6557	6749	6736	6924	7406	7844	7892	8272	8211	8489	8467	8647	8454	2439	2102	1887	2026
	2. " OF ORGANS OF CIRCULATION -	2679	2911	2850	2993	3116	3536	3456	3496	3258	3558	3633	3649	3953	1128	899	824	1102
	3. " OF RESPIRATORY ORGANS -	9305	12444	11735	11190	11499	15201	12545	13230	12907	12182	14121	13906	14500	4834	2678	1495	5493
	4. " OF DIGESTIVE ORGANS -	2645	2611	2735	2745	2950	2964	3091	2916	2879	3031	2961	3063	3047	734	735	823	750
	5. " OF URINARY ORGANS -	637	888	899	958	1025	1086	1088	1131	1241	1197	1363	1294	1310	352	307	279	372
	6. " OF ORGANS OF GENERATION -	231	193	206	203	254	255	268	260	220	295	265	235	230	57	49	55	69
	7. " OF ORGANS OF LOCOMOTION -	160	176	174	184	230	250	239	241	306	331	300	274	347	85	104	75	83
	8. " OF INTEGUMENTARY SYSTEM -	263	274	234	226	258	240	247	209	185	255	224	232	230	63	57	43	67
IV.	1. DEV. DIS. OF CHILDREN	1831	1914	2037	1969	2054	2179	2077	2207	2230	2193	2118	2099	2205	599	577	537	492
	2. " OF ADULTS -	272	262	250	252	350	323	310	323	306	294	270	316	325	87	78	78	83
	3. " OF OLD PEOPLE	2279	2388	2516	2631	2687	2972	2721	2574	2609	2544	2587	2743	2643	850	580	527	686
	4. DISEASES OF NUTRITION	2877	2676	2877	2819	2783	3199	3498	3495	3767	3794	3422	3356	3271	757	684	1063	767
V.	1. ACCIDENT OR NEGLIGENCE -	1673	1715	1870	1829	2149	2139	2241	2137	2148	2126	1914	2153	2138	618	484	523	513
	3. HOMICIDE -	93	136	115	111	128	126	132	138	104	112	110	106	109	27	28	24	30
	4. SUICIDE -	256	285	261	266	251	259	267	258	260	294	302	273	300	64	96	73	67
	5. EXECUTION -	1	2	1	2	1	9	..	1	3	2	1	2	..	..	..	..	..
	VIOLENT DEATHS NOT CLASSED -	..	..	..	1	1	2	6	9	34	33	21	42	47	7	14	15	11
	SUDDEN DEATHS, CAUSE UNASCERTAINED -	247	138	104	256	233	185	191	131	85	60	53	79	40	22	9	5	4
	CAUSES NOT SPECIFIED -	498	535	549	619	448	666	718	552	746	614	474	368	283	67	110	51	55

* Order 2., comprising Violent Deaths IN BATTLE, is omitted as inapplicable to the civil population.

TABLE 10.—Deaths in London, from All Causes, REGISTERED in the YEARS 1859-1871—continued.

		MEAN TEMPERATURE												1871.					
		50°-7	47°-0	49°-4	40°-5	50°-3	48°-5	50°-3	49°-8	48°-6	51°-6	49°-5	48°-7	48°-7	QUARTER ENDING				
Class.	YEARS	1859	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	1871	Apr. 1	July 1	Sept. 30	Dec. 30	
CAUSES OF DEATH.		364	364	364	364	371	364	364	364	364	371	364	364	364	91	91	91	91	
		Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	
I.	ORDER 1.																		
	1. Small-pox	1158	877	215	345	2012	537	646	1388	1332	606	273	958	7876	2400	3241	1255	980	
	2. Measles	1305	2054	1070	2281	1698	2750	1302	2259	1125	1939	1425	1443	1431	202	215	251	763	
	3. Scarlet Fever (Scarlatina)	4197	2457	697	734	3457	3075	2181	1885	1458	2921	5893	5998	1890	722	393	351	454	
	4. Diphtheria	85	60	110	93	75	51	70	44	32	33	24	29	6	5	9	1	1	
	5. Quinsy	396	471	835	937	927	882	742	716	723	717	582	592	528	166	127	109	126	
	6. Croup	1741	2023	3497	2150	2229	2386	2921	2933	2251	2369	3755	1935	2299	642	518	368	771	
	7. Whooping-cough																		
	8. Typhus Fever	1796	1392	1754	3635	2892	3689	3232	2681	2174	2483	724	463	398	130	98	89	81	
	9. Enteric or Typhoid Fever											1055	976	885	196	167	175	347	
	10. Simple continued Fever											635	609	463	133	119	91	120	
	11. Erysipelas	294	293	255	314	447	452	363	310	264	427	332	447	494	150	114	98	132	
	12. Puerperal Fever (Metritis)	207	145	162	190	220	261	182	153	137	219	198	217	182	64	24	41	58	
	13. Carbuncle	68	53	43	43	60	52	57	65	44	51	63	25	28	4	11	6	7	
	14. Influenza	62	113	46	45	41	64	36	37	34	26	39	30	35	12	5	5	13	
	15. Dysentery	214	110	123	95	108	104	110	148	85	90	94	87	85	20	15	27	23	
	16. Diarrhoea	3335	1383	2625	1735	2148	2861	3557	3184	2942	4060	3400	3776	3894	179	235	3122	358	
	17. Cholera	198	46	168	107	164	154	193	5577	241	322	217	235	221	3	9	202	7	
	18. Ague	30	30	33	24	20	19	24	7	13	17	23	14	19	3	11	1	4	
	19. Remittent Fever	94	97	98	107	92	100	44	80	3	8	16	10	9	3	4	1	1	
20. Rheumatism	340	344	359	356	453	481	434	327	290	474	403	423	408	109	102	65	112		
21. Other Zymotic Diseases	..	..	..	..	..	..	..	11	12	8	17	22	25	9	3	5	8	
	ORDER 2.																		
	1. Syphilis	288	256	327	282	335	356	369	408	423	473	466	463	356	95	80	91	90	
	2. Stricture of Urethra	48	65	58	59	67	61	61	36	52	52	78	51	59	17	16	11	16	
	3. Hydrophobia	..	..	..	..	2	..	9	11	3	..	3	..	1	..	..	1	..
	4. Glanders	..	1	5	2	3	1	2	2	2	4	2	3	1	..	..	1	..
	ORDER 3.																		
	1. Privation	26	27	27	41	25	56	26	26	39	36	20	27	20	8	3	3	6	
	2. Want of Breast Milk	445	381	453	406	418	437	5312	514	431	507	442	474	455	93	74	174	112	
	3. Purpura and Scoury	50	56	65	69	83	69	80	91	100	95	83	104	152	45	46	26	35	
	4. Alco- } a Del. Tremens } b Intemperance	122	99	108	125	138	146	150	113	98	110	118	70	89	16	21	27	25	
		119	98	67	65	110	96	93	92	68	59	47	46	62	11	16	16	19	
	ORDER 4.																		
	1. Thrush	139	90	132	187	141	153	191	177	242	228	187	173	146	26	26	61	33	
	2. Worms, &c.	13	5	9	5	11	8	7	7	13	6	14	7	19	3	4	4	8	
	II.	ORDER 1.																	
		1. Gout	77	61	74	80	65	95	88	73	96	115	105	109	123	32	25	28	38
		2. Dropsy	717	671	666	689	739	713	775	765	630	638	656	656	666	171	135	125	135
		3. Cancer	1161	1199	1304	1333	1383	1457	1392	1417	1644	1580	1684	1677	1611	404	391	413	403
		4. Cancerum Oris (Noma)	22	27	31	35	29	29	34	17	39	23	19	17	19	1	5	6	7
		5. Mortification	176	100	183	192	185	208	194	194	169	166	163	206	187	58	50	86	43
ORDER 2.																			
1. Scrofula		405	465	533	321	525	532	485	475	410	407	388	429	473	180	117	126	100	
2. Tabes Mesenterica		800	755	973	813	922	977	1236	1155	1115	1180	1207	1181	1178	305	248	435	500	
3. Phthisis		7670	7648	7716	7749	7691	8559	8710	9277	8817	9021	8785	8773	8473	2163	2118	1936	2211	
4. Hydrocephalus		1427	1507	1582	1491	1589	1647	1621	1491	1323	1481	1332	1439	1392	843	880	349	300	
		ORDER 1.																	
		1. Cephalitis	561	540	522	556	625	570	773	705	745	867	850	910	855	227	234	225	169
		2. Apoplexy	1475	1544	1489	1647	1733	1754	1811	1809	1815	1763	1794	2066	2113	611	497	440	562
		3. Paralysis	1217	1264	1243	1237	1265	1457	1365	1560	1532	1550	1548	1600	1490	463	347	315	305
		4. Insanity	87	58	72	82	78	95	95	115	139	116	107	110	114	38	25	21	80
		5. Chorea	8	7	11	12	11	9	11	7	7	7	18	15	12	5	3	..	4
		6. Epilepsy	286	324	313	373	370	346	394	371	322	355	335	344	245	81	61	73	70
		7. Convulsions	1933	2135	2161	2149	2342	2621	2531	2787	2768	2867	2937	2742	2735	790	704	603	638
		8. Brain Disease, &c.	870	877	925	868	932	992	906	917	876	964	830	870	850	220	231	201	118
	ORDER 2.																		
	1. Pericarditis	117	121	97	104	121	123	107	106	118	136	134	122	133	41	61	22	39	
	2. Aneurism	94	102	108	106	125	101	131	160	137	147	139	157	142	75	33	30	44	
	3. Heart Disease, &c.	2468	2688	2645	2783	2867	3312	3218	3250	3003	3273	3360	3370	3678	1052	835	772	1019	
	ORDER 3.																		
	1. Laryngitis	274	268	381	419	387	381	323	314	323	343	307	421	388	154	97	55	82	
	2. Bronchitis	4074	6719	6465	5425	6049	8666	7265	7512	7501	6688	8039	8234	8908	3073	1470	768	3495	
	3. Pleurisy	147	155	159	142	156	178	152	123	154	137	171	155	156	41	46	26	41	
	4. Pneumonia	3076	4389	3665	3496	3727	4490	3600	4168	3627	3840	4217	3762	3776	1095	791	501	1389	
	5. Asthma	517	553	582	564	522	636	490	430	601	439	555	529	504	201	118	44	201	
	6. Lung Disease, &c.	817	360	483	644	654	850	715	683	701	725	722	804	810	270	155	99	265	
	ORDER 4.																		
	1. Gastritis	123	95	72	97	88	114	89	92	82	93	86	98	56	33	21	25	17	
	2. Enteritis	292	273	303	274	340	307	322	277	286	313	322	278	250	59	55	108	68	
	3. Peritonitis	229	217	230	232	252	277	248	237	218	299	245	278	278	62	75	80	61	
	4. Ascites	145	162	124	143	148	142	166	141	148	106	116	128	125	24	31	40	80	
	5. Ulceration of Intestines	109	118	130	116	142	145	126	116	125	142	136	173	169	44	42	43	40	
	6. Hernia	138	153	161	179	169	162	146	155	159	169	161	176	171	69	28	54	51	
	7. Ileus	149	150	184	128	140	145	164	132	182	163	150	166	159	46	49	36	38	
	8. Intussusception	48	43	54	36	35	50	47	49	57	42	54	50	56	12	20	5	19	

TABLE 10.—Deaths in London, from All Causes, REGISTERED in the YEARS 1859-1871—continued.

Class.	MEAN TEMPERATURE	50°·7	47°·0	49°·4	49°·5	50°·3	48°·5	50°·3	49°·8	48°·6	51°·6	49°·5	48°·7	48°·7	1871.			
															QUARTER ENDING			
															Apr. 1	July 1	Sept. 30	Dec. 30
YEARS	- - -	1859	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	1871	91	91	91	91
	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.
CAUSES OF DEATH.																		
ORDER 4.—continued.																		
9. Stricture of Intestines	-	31	53	48	49	51	49	42	48	35	45	45	38	58	14	16	17	11
10. Fistula	-	26	18	19	26	21	18	26	19	22	20	18	19	25	8	8	4	5
11. Stomach Disease, &c.	-	305	291	301	356	330	346	360	319	314	330	308	356	313	68	68	93	84
12. Pancreas Disease, &c.	-	3	1	2	4	2	2	1	2	1	3	2	1	1	..	..	..	..
13. Hepatitis	-	180	145	183	167	224	175	202	214	135	171	165	178	164	32	51	32	49
14. Jaundice	-	177	176	192	175	212	210	211	189	203	238	225	204	225	58	58	69	40
15. Liver Disease, &c.	-	666	705	719	753	786	806	926	882	842	883	915	878	872	207	213	218	234
16. Spleen Disease, &c.	-	24	11	13	19	12	15	15	24	25	14	12	14	16	7	2	4	3
ORDER 5.																		
1. Nephritis	-	41	35	33	37	54	56	47	51	60	87	106	124	114	35	23	25	31
2. Ischuria	-	16	10	19	9	13	7	14	21	17	15	15	14	8	9	2	2	2
3. Bright's Dis. (Nephria)	-	233	331	379	402	456	479	483	451	518	436	608	543	494	147	113	100	134
4. Diabetes	-	53	69	77	67	73	81	84	84	84	93	93	104	110	30	28	24	28
5. Calculus (Stone)	-	36	34	30	38	31	43	32	43	41	45	38	32	44	7	15	8	14
6. Cystitis	-	29	38	39	44	55	56	44	61	67	71	55	55	68	13	15	14	13
7. Kidney Disease, &c.	-	369	372	322	361	343	364	384	420	464	450	448	422	472	118	111	106	137
ORDER 6.																		
1. Ovarian Dropsy	-	67	49	50	45	53	46	50	23	41	41	38	24	24	7	8	5	7
2. Uterus Disease, &c.	-	164	144	156	158	201	209	218	237	179	254	227	211	206	50	44	50	62
ORDER 7.																		
1. Synovitis (Arthritis)	-	6	11	11	4	8	17	6	10	7	9	14	19	20	6	3	3	8
2. Joint Disease, &c.	-	154	165	163	180	222	233	233	231	298	322	286	235	327	79	101	72	75
ORDER 8.																		
1. Phlegmon	-	144	131	106	76	105	86	101	75	85	132	113	127	126	38	32	24	32
2. Ulcer	-	64	62	68	78	91	63	72	67	50	56	56	48	44	10	12	7	15
3. Skin Disease, &c.	-	55	81	60	72	62	91	74	67	50	67	55	67	60	15	13	12	20
IV. ORDER 1.																		
1. Premature Birth	-	909	930	966	956	1011	1008	1081	1112	1105	1105	1010	1060	1155	278	309	279	289
2. Cyanosis	-	99	86	107	99	116	121	107	107	112	118	92	103	100	31	24	21	24
3. Spina Bifida	-	41	40	51	56	58	43	36	55	55	48	65	57	60	16	11	13	20
4. Other Malformations	-	72	82	86	97	72	98	81	85	98	88	69	97	87	23	18	19	27
5. Teething	-	710	776	827	761	797	909	772	848	859	834	882	782	803	251	215	205	132
ORDER 2.																		
1. Paramenia	-	15	8	16	11	11	8	10	12	9	9	11	10	7	1	1	2	3
2. Childbirth (see Puerperal Fever)	-	257	254	234	241	339	315	300	316	297	275	259	306	318	66	77	76	79
ORDER 3.																		
1. Old Age	-	2279	2388	2516	2631	2687	2972	2721	2574	2609	2544	2587	2743	2643	850	680	527	686
ORDER 4.																		
1. Atrophy and Debility	-	2577	2676	2877	2819	2783	3199	3498	3495	3767	3794	3422	3356	3271	737	684	1063	767
V. ORDER 1.																		
(ACCIDENT OR NEGLIGENCE.)																		
1. Fractures and Contusions	-	645	663	719	707	827	898	999	915	845	871	774	941	909	226	229	216	233
2. Wounds	-	32	29	27	29	41	38	25	28	22	20	21	44	38	16	10	7	6
3. Burns and Scalds	-	332	326	337	345	341	342	328	296	802	257	263	275	261	106	40	40	69
4. Poison	-	46	45	60	49	58	48	40	49	55	44	44	52	45	12	14	8	11
5. Drowning	-	282	257	299	285	355	257	329	333	335	339	297	279	300	67	76	139	37
6. Suffocation	-	288	328	354	342	399	401	405	408	457	386	388	400	490	165	97	91	137
7. Otherwise	-	48	67	74	72	128	155	115	108	132	179	127	162	95	37	12	31	15
ORDER 3.																		
(HOMICIDE.)																		
1. Murder and Manslaughter	-	93	136	115	111	128	126	132	138	104	112	110	106	109	27	28	24	30
ORDER 4.																		
(SUICIDE.)																		
1. Wounds (Gunshot)	-	14	17	12	11	13	18	14	15	15	16	10	16	21	3	8	6	4
2. Poison	-	62	54	46	44	53	45	67	63	59	50	75	62	72	16	23	22	11
3. Drowning	-	41	56	40	48	38	49	50	52	45	46	54	51	52	11	12	14	15
4. Hanging	-	37	51	44	35	42	42	36	33	46	72	69	56	69	15	25	15	14
5. Otherwise	-	86	93	98	113	81	82	78	77	58	79	74	57	63	11	22	11	19
	-	16	14	21	15	24	23	22	18	37	31	20	51	23	8	6	5	4
ORDER 5.																		
(EXECUTION.)																		
1. Hanging	-	1	2	1	2	1	9	..	1	3	2	1	2	..	..	..	..	..
Violent Deaths (not classed)	-	1	1	2	6	9	34	33	21	42	47	7	14	15	11
Sudden Deaths (cause unascertained)	-	247	138	164	256	233	185	191	131	85	60	53	79	40	22	9	5	4
Causes not specified or ill-defined	-	498	335	549	619	448	666	718	552	746	614	474	368	283	67	110	51	55

NOTE.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is a suicide, a murder, or an accident. All such cases are classed under "accident or negligence." Cases of "infantile fever" are classed with those of "enteric or typhoid fever;" "relapsing," and other continued fevers, under one name "simple continued fever."

Cases of "rheumatic fever" are classed with "rheumatism;" of "hemorrhage" and "abscess" with the diseases of the organs affected. Cases of "neglect" and "cold," except when the result of "privation" (Class I.; § 1.), are placed under deaths by "accident or negligence" (V.; § 7.). As "stricture of the urethra" is almost invariably the result of gonorrhoea, it is classed as I.; 2; 2.

Total Births and Deaths, and Deaths from some Zymotic and other Causes.

TABLE 11. LONDON.—Births and Deaths from ALL CAUSES, and from SMALL-POX, MEASLES, SCARLET FEVER, SUB-DISTRICT, also INQUEST CASES and DEATHS in PUBLIC INSTITUTIONS,

		52	52	The DEATHS registered in the 52 Weeks include																			
REGISTRARS' SUB-DISTRICTS.		in	in	Deaths of		Deaths from																	
		Total Births in Weeks.	Total Deaths in Weeks.	Children under 1 Year of Age.	Persons aged 1 to 60 Years and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus Fever.	Erysipelas (or Typhoid) Fever.	Simple continued Fever.	Diarrhoea.	Cholera.	Violence.	Inquest Cases.	Deaths in Public Institutions.					
LONDON		112535	80332	19201	15541	7876	1431	1896	313	2299	398	885	463	3894	221	2594	4968	14589					
WEST DISTRICTS		16907	12665	3021	2697	627	219	338	57	428	33	147	82	646	38	387	731	2110					
NORTH DISTRICTS		25297	19205	4187	3872	3004	331	472	99	537	142	247	61	833	49	564	1234	4654					
CENTRAL DISTRICTS		10381	8291	1791	1678	361	107	183	38	220	33	93	44	349	10	338	610	1645					
EAST DISTRICTS		24671	16702	4572	2948	1443	344	263	27	521	81	160	124	913	60	626	1356	2708					
SOUTH DISTRICTS		35079	23379	5850	4446	2348	380	680	92	593	109	238	152	1159	64	689	1037	3472					
WEST DISTRICTS.																							
St. Mary Paddington WH		2074	1280	371	263	46	27	35	3	57	2	12	9	76	10	27	66	134					
St. John Paddington H		713	667	86	177	8	4	18	6	22	8	1	18	2	53	68	189	659					
Kensington Town WL		3094	1845	481	410	53	60	88	9	65	4	20	12	106	3	44	132	54					
Brompton H		710	515	101	109	9	4	7	2	7	2	8	2	23		9	16	98					
St. Peter Hammersmith		198	109	25	25	2	1	2	1	1	1	1		5		4	9	24					
St. Paul Hammersmith H		1263	780	199	156	42	21	27	3	19	4	7	2	45	3	19	33	24					
Fulham WLLL		892	584	173	125	20	4	3	20	2	11	7	66	3	14	31	73						
Chelsea South HHH		812	598	140	168	33	2	18		19	1	12	5	39	1	13	42	92					
Chelsea North-west WHH		814	776	172	237	15	10	10	1	29	2	7	7	33	1	12	32	268					
Chelsea North-east L		659	505	144	93	17	8	9	3	24	3	10	5	29	3	14	42						
Hanover-square		363	289	61	78	3	4	8	7	3	2	1	3	9		6	7						
May Fair W		268	204	21	70	1	2	4	1	2		2	4	6	1	4	6	72					
Belgrave HH		1529	1318	278	239	56	7	30	5	39	5	15	6	37	4	72	81	297					
St. John Westminster HHHH		1275	1060	295	118	152	38	30	1	51	2	8	8	67	3	14	39	38					
St. Margaret Westm. WWHHH		793	1059	221	199	143	16	19	2	29	2	14	6	34	2	45	72	627					
St. James's-square		159	137	22	33	1		3	1	6	1	4	1	5		5	5						
Golden-square W		379	357	70	113	5	6		1	9			1	12	1	11	12	122					
Berwick-street		325	228	62	30	12		8	5	7		2		11	1	5	13						
St. Anne Soho HH		534	404	99	54	9	5	8	3	19		5	8	15		16	25	32					
NORTH DISTRICTS.																							
All Souls Marylebone HH		901	849	177	147	24	18	11	6	48	1	14	4	33	3	32	65	248					
Cavendish-square		309	205	44	50	5	1	1	1	8	1	4	2	11		3	12						
Rectorry Marylebone WWH		894	927	156	361	13		13	1	18	4	5	5	23	1	11	40	442					
St. Mary Marylebone H		1020	418	125	110	15	1	4	3	6		6	5	31	1	7	7	28					
Christchurch Marylebone		1099	781	235	121	29	5	37	2	42	4	5	2	79	3	29	67						
St. John Marylebone		950	668	163	152	46	18	24	4	19	2	11		27		20	45	33					
Hampstead WHH		780	1636	142	123	1183	9	18	5	6	1	7	3	22		15	26	1205					
Regent's Park Pancras		1260	756	212	153	42	19	14	6	38	3	9	4	43	2	28	60						
Tottenham-court WH		890	893	174	198	42	17	9	11	29	3	11		38	8	64	67	331					
Gray's-inn-lane H		929	747	166	148	45	12	15	2	21	4	7	3	25	1	65	110	131					
Somers-town		1241	856	215	146	124	34	21	10	28	4	14	4	37	1	19	73						
Clarendon-town WH		730	715	162	245	49	7	10	2	6	1	1	2	16	2	81	208	182					
Kentish-town W		2438	1472	366	290	155	16	26	6	36	5	18	10	71	4	32	86	182					
Islington West WHHH		3634	2493	553	370	343	101	109	17	89	83	74	4	97	7	49	127	488					
Islington East WHH		4021	2357	641	632	155	48	70	15	65	11	30	6	144	6	52	109	289					
Stoke Newington L		316	165	44	40	6		4	1	5	1	2		8	3	6	12	7					
Stamford-hill		205	109	23	32	4			1	1				1		4	5	10					
West Hackney		971	631	163	133	70	12	21	1	21	5	4	1	26	3	10	21						
Hackney WHHL		1583	1819	242	321	701	6	48	2	36	8	21	4	58		39	66	693					
South Hackney L		1075	605	179	97	82	7	17	4	15	1	8	1	30	4	7	23						
CENTRAL DISTRICTS.																							
St. George Bloomsbury		465	336	83	83	21	3	8	1	11		5		17		10	27						
St. Giles South WH		774	898	131	166	11	7	10	4	10	1	4	3	28		10	38	209					
St. Giles North		458	330	101	48	12	4	3		17		4	1	17		7	18						
Long Acre		374	257	68	44	7	7	5	5	11		2	3	14		3	14						
Charing Cross WH		185	270	26	38	8	1	3		2	1	3	7			30	31	141					
St. Mary-le-Strand		233	178	46	36	4	1	8	1	5		4		7	1	6	10						
St. Clement Dames H		293	435	73	73	16	6	6	3	5	5	4	2	19	1	24	25	182					
St. George-the-Martyr HHH		607	517	98	97	13	4	14	8	7	3	4	2	12	1	13	27	98					
St. Andrew Eastern W		420	557	103	136	3	7	2	3	7	2	5	4	19		7	24	271					
Saffron-hill		243	195	55	31	1	4	2	1	10		8	2	10		2	9						
St. James Clerkenwell W		649	479	116	80	19	7	8	1	17	1	6	4	18		12	31	75					
Amwell Clerkenwell		558	312	85	55	13	3	7	1	13	1	3	8	16	1	8	37						
Fountain-ville		449	281	85	61	12	6	7	2	19	2	6	8	2	19		11	28					
Goswell-street		618	345	91	70	16	8	5	2	13	2	6	4	14		7	19						
Old-street H		466	185	65	26	9	1	9	1	4	2	3	2	12		1	2						
City-road WHHL		1149	407	119	62	22	5	9		14	1	5	1	26	1	11	28	30					
Whitecross-street H		513	395	114	45	86	3	13	1	7	2	1	1	17	1	10	38	49					
Finsbury		285	198	50	28	14	4	4	1	14	3	4	1	11		6	12						
St. Botolph HH		418	322	68	59	31	10	5		3		6	1	12	2	6	9	21					
Cripplegate		398	800	68	69	22	4	10		7	5	2	3	20	1	5	11						
St. Sepulchre H		236	705	40	79	7	2	9		6	1	12	1	10		106	120	563					
St. Bride W		223	211	44	57	6	4	1	1	4		5		8		4	12						
Castle Baynard		68	58	6	17	1		2		2				2		2							
Christchurch		88	64	9	18	1		2				1	1	1	1	1	2						
Queenhithe		86	99	15	25	5			1				1	2		4	13						
Allhallows, Barking		100	105	6	34	1		3		2	1	1		1		15	20						
Broad-street		155	152	25	48	3	6			3		2	3	4		5	5						

NOTE.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely, W—Workhouse; H—Hospital; L—Lunatic asylum; w—Workhouse not belonging to the district in which it is situated.

• The deaths in Prisons are not included in this column.

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHŒA, CHOLERA, and VIOLENCE, registered in each during the 52 Weeks ending Saturday 30th December 1871.

REGISTRARS' SUB-DISTRICTS.	52 in	52 in	The DEATHS registered in the 52 Weeks include															Inquest Cases.	Deaths in Public Institutions.	
			Deaths of	Deaths from																
				Children under 1 Year of Age.	Persons aged 60 Years and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus Fever.	Erysipelas (or Typhoid) Fever.	Simple continued Fever.	Diarrhoea.	Cholera.	Violence.				
EAST DISTRICTS.	Total Births in 52 Weeks.	Total Deaths in 52 Weeks.	Children under 1 Year of Age.	Persons aged 60 Years and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus Fever.	Erysipelas (or Typhoid) Fever.	Simple continued Fever.	Diarrhoea.	Cholera.	Violence.	Inquest Cases.	Deaths in Public Institutions.			
Holywell Shoreditch - - -	403	300	77	37	21	18	4	-	10	2	2	4	15	1	8	24	-			
St. Leonard Shoreditch <i>HL</i> - -	644	545	145	74	104	16	8	-	9	4	9	2	20	3	12	24	96			
Hoxton New Town <i>w</i> - - -	1220	713	188	171	83	12	18	1	8	3	6	1	42	2	10	39	155			
Hoxton Old Town - - -	1070	394	167	80	90	12	7	2	18	12	12	3	24	1	18	38	-			
Haggerstone West <i>W</i> - - -	989	791	177	205	90	14	11	-	18	6	8	5	43	2	18	41	234			
Haggerstone East - - -	776	419	128	54	51	11	10	-	8	1	7	-	25	3	12	17	-			
Hackney-road - - -	1193	684	225	77	87	20	7	2	35	6	12	4	47	4	27	63	-			
Green, Bethnal Green <i>WH</i> - -	1747	1261	317	285	109	8	21	-	25	3	8	12	54	1	38	121	323			
Church, Bethnal Green - - -	1044	672	165	73	100	14	13	1	12	3	4	4	34	2	21	47	-			
Town, Bethnal Green - - -	823	522	152	69	79	5	7	-	9	2	8	6	26	4	14	52	-			
Artillery Whitechapel - - -	204	121	31	29	12	6	3	-	1	2	1	2	11	-	2	6	-			
Spitalfields - - -	507	323	101	56	20	5	8	-	5	2	1	2	23	2	17	49	-			
Mill End New Town <i>W</i> - - -	619	618	120	155	63	8	4	-	7	3	2	2	24	2	12	60	304			
Whitechapel North - - -	401	259	81	48	21	8	4	-	9	4	1	1	21	-	5	15	-			
Whitechapel Church <i>H</i> - - -	261	690	60	90	5	4	5	1	8	2	2	2	13	-	145	161	550			
Goodman's Fields - - -	371	248	83	28	12	9	9	-	10	-	-	2	25	-	4	15	-			
Aldgate - - -	207	206	53	21	26	4	1	-	4	-	-	-	14	1	5	14	-			
St. Mary, St. George East - -	663	461	154	53	19	28	10	1	27	3	3	3	40	2	10	22	-			
St. Paul, St. George East - -	822	506	170	64	13	15	7	1	26	3	5	10	23	2	9	35	-			
St. John, St. George East <i>W</i> -	332	423	65	119	29	7	7	1	10	4	4	4	13	-	8	25	245			
Shadwell <i>w</i> - - -	338	264	61	41	14	3	3	-	9	2	1	1	15	-	25	40	12			
Ratcliff <i>WH</i> - - -	526	892	105	53	16	7	7	3	18	2	4	2	22	2	20	40	39			
Limehouse <i>W</i> - - -	1161	610	166	89	46	13	11	8	27	2	5	2	40	1	24	68	6			
Mill End Old Town, West - -	1548	894	264	158	56	17	17	-	55	8	10	13	56	1	15	43	-			
Mill End Old Town, East <i>WwH</i> -	2139	1334	329	259	112	20	28	4	65	4	8	10	88	4	30	83	171			
Bow <i>WwH</i> - - -	2852	1887	495	388	95	47	25	6	66	9	20	10	85	17	65	101	447			
Poplar <i>W</i> - - -	1811	1056	293	172	70	18	13	1	37	2	14	7	65	5	57	111	126			
SOUTH DISTRICTS.																				
Christchurch Southwark <i>W</i> - -	498	467	108	143	51	5	8	-	16	1	1	3	22	-	21	26	69			
St. Saviour Southwark <i>H</i> - -	562	373	98	68	34	7	12	-	4	-	-	-	11	2	8	9	12			
Kent-road - - -	659	557	135	69	92	83	11	1	19	5	2	4	43	1	8	10	-			
Borough-road <i>WH</i> - - -	698	429	104	76	22	11	7	3	21	1	2	3	21	-	11	24	81			
London-road <i>L</i> - - -	643	479	128	55	47	9	13	3	9	4	3	4	11	1	11	17	18			
Trinity Newington - - -	906	551	135	76	71	15	17	2	18	6	7	8	31	-	7	15	-			
St. Peter Walworth <i>W</i> - - -	1889	1332	341	295	125	21	20	4	30	12	10	8	60	3	16	24	247			
St. Mary Newington <i>H</i> - - -	575	488	108	82	33	4	6	3	14	3	2	6	18	-	32	35	121			
St. Olave Southwark <i>H</i> - - -	85	631	18	90	1	2	1	1	3	1	6	-	-	9	-	119	130			
St. John Horsedown <i>W</i> - - -	404	317	66	57	10	4	5	-	4	5	2	2	26	1	9	12	100			
Leather Market - - -	599	458	126	65	17	17	11	1	11	6	3	1	23	1	6	10	-			
St. Mary Magdalen <i>W</i> - - -	615	456	103	147	49	15	12	-	7	2	5	-	16	1	13	22	116			
St. James Bermondsey - - -	2113	1080	347	137	97	67	41	3	38	9	5	2	49	4	28	45	-			
Rotherhithe <i>WH</i> - - -	682	578	128	110	44	11	6	2	16	5	5	1	17	4	37	44	80			
Waterloo Road 1st <i>H</i> - - -	515	356	119	40	26	7	12	-	11	1	8	-	28	1	8	11	14			
Waterloo Road 2nd <i>H</i> - - -	963	444	148	60	27	9	8	1	17	1	4	2	30	1	10	19	3			
Lambeth Church 1st <i>H</i> - - -	767	558	188	65	23	12	19	-	41	2	7	6	30	2	20	27	100			
Lambeth Church 2nd <i>W</i> - - -	1624	1152	309	270	54	28	40	-	45	5	16	9	41	7	28	50	319			
Kennington 1st <i>W</i> - - -	1423	849	228	173	74	17	23	1	29	3	13	5	37	6	17	28	3			
Kennington 2nd - - -	1011	680	156	126	49	5	17	9	16	-	7	8	22	1	7	9	-			
Brixton <i>HL</i> - - -	1194	1204	177	152	694	3	54	4	13	2	12	2	28	1	10	23	651			
Norwood <i>W</i> - - -	446	223	66	38	19	2	5	4	14	-	4	-	13	1	1	3	3			
Clapham <i>HL</i> - - -	884	605	147	146	94	2	21	3	18	3	4	5	29	1	5	9	6			
Rattlesden <i>W</i> - - -	2290	1472	417	218	264	17	55	2	18	12	13	10	71	4	28	48	153			
Randsdown <i>HL</i> - - -	639	452	86	102	14	33	23	-	12	-	2	1	17	3	14	34	110			
Pursey - - -	275	151	33	48	1	1	21	1	1	1	-	-	6	-	4	7	-			
Streatham - - -	401	187	51	65	4	1	7	1	3	-	3	3	9	-	11	15	-			
Dulwich - - -	91	37	5	16	-	-	-	-	2	1	-	1	-	1	-	8	6			
Camberwell <i>W</i> - - -	1047	707	141	207	23	6	13	2	3	-	11	4	23	2	6	16	215			
Camberwell <i>W</i> - - -	1527	898	255	195	44	11	35	4	23	-	10	6	63	1	20	80	-			
St. George Camberwell - - -	1250	710	211	117	66	12	12	1	23	1	10	6	43	4	14	19	-			
St. Paul Deptford - - -	2056	1009	312	155	52	13	29	9	25	2	15	5	86	2	27	49	-			
St. Nicholas Deptford - - -	193	152	35	30	8	4	1	-	5	-	1	1	10	-	10	13	-			
Greenwich West <i>H</i> - - -	633	416	109	126	6	4	7	-	9	1	1	2	37	-	22	31	8			
Greenwich East <i>WH</i> - - -	160	662	107	208	5	4	2	5	5	4	13	4	27	1	22	47	340			
Eltham - - -	139	53	10	19	1	-	1	-	-	-	1	1	2	-	1	1	-			
Lee - - -	372	213	43	72	3	3	10	1	2	1	3	-	10	-	6	8	-			
Lewisham Village <i>WH</i> - - -	418	219	40	74	4	1	3	1	2	-	2	-	8	-	10	6	30			
Cydenham - - -	639	319	103	60	2	13	19	9	4	1	5	1	17	1	3	10	-			
Charlton <i>H</i> - - -	219	185	23	50	6	1	11	1	-	-	1	7	6	1	8	10	56			
Woolwich Dockyard - - -	621	317	95	38	5	2	17	5	14	3	6	14	25	1	12	22	-			
Woolwich Arsenal <i>H</i> - - -	764	398	117	61	11	4	17	1	10	1	4	4	29	4	26	39	23			
Plumstead, West - - -	484	224	73	83	6	1	14	-	6	-	4	2	19	1	5	11	-			
Plumstead, East <i>W</i> - - -	633	321	95	52	10	3	14	2	13	1	7	2	51	-	4	13	27			

The following are OUTLYING WORKHOUSES (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh. is in Chelsea North-west sub-district.	Branch Poplar Workh. is in Shadwell sub-district.
The Strand - - -	Tottenham-court sub-district.
City of London - - -	Islington East sub-district.
City of London - - -	Hackney sub-district.
Holborn - - -	Hoxton New Town sub-district.
	Stepney - - -
	Mill End Old Town Eastern sub-dist. and Bow sub-district.

† Lunatic Asylums where paupers are admitted.

TABLE 12.—Weekly Deaths from Scarlet Fever in

Number of Week.	Total in 32 Years.	Weekly Average in 32 Years.	1840.	1841.	1842.	1843.	1844.	1845.	1846.	1847.	1848.	1849.	1850.	1851.	1852.	1853.	1854.
YEAR	32,118	49	1,954	663	1,224	1,867	3,029	1,085	923	1,433	4,756	2,145	1,178	1,269	2,549	2,069	3,439
March Quarter	16,505	40	523	167	121	297	536	421	221	196	615	776	199	206	366	574	417
June " "	14,831	36	499	124	195	321	601	201	177	174	816	497	234	169	563	430	747
September " "	21,603	52	516	192	389	543	1,020	194	203	316	1,560	386	316	291	668	397	978
December " "	29,320	70	416	180	519	706	872	269	322	747	1,765	486	429	603	952	668	1,297
1 - -	1681	52	48	26	8	27	47	37	19	16	57	81	31	14	41	67	40
2 - -	1536	48	51	17	9	22	51	47	20	22	40	63	11	16	26	66	45
3 - -	1535	48	45	18	7	30	49	45	16	12	45	87	17	19	29	63	25
4 - -	1367	43	31	11	11	23	42	28	14	14	38	76	16	17	37	38	35
5 - -	1245	39	33	10	8	19	31	35	19	14	57	62	13	16	27	43	32
6 - -	1255	39	46	12	14	15	37	34	16	17	53	55	11	13	32	40	28
7 - -	1265	40	44	13	4	24	43	38	24	14	42	64	13	20	30	48	35
8 - -	1197	37	45	11	11	22	43	30	20	21	43	50	11	9	29	36	29
9 - -	1150	36	36	8	7	29	39	23	16	13	54	57	21	19	22	28	31
10 - -	1106	35	24	11	12	21	40	24	11	11	42	43	14	20	24	33	30
11 - -	1042	33	47	7	6	21	43	23	18	13	51	42	12	16	13	38	22
12 - -	1037	32	28	11	16	22	36	27	20	13	46	40	14	15	20	37	33
13 - -	1070	33	45	12	8	22	35	30	8	11	47	56	15	10	31	37	32
14 - -	1008	32	34	11	5	21	35	11	16	7	36	39	17	6	33	35	36
15 - -	1047	33	36	3	11	21	31	17	11	16	53	48	18	13	35	37	39
16 - -	1033	34	36	9	5	27	32	18	13	12	57	38	19	8	36	20	42
17 - -	1040	33	35	9	12	18	35	16	15	11	44	47	21	10	38	26	64
18 - -	1079	34	42	8	7	24	24	9	6	13	51	41	17	13	45	37	67
19 - -	1062	33	46	6	10	10	35	11	11	11	43	40	25	11	37	40	49
20 - -	1118	35	35	6	15	21	41	22	15	15	50	35	16	9	44	36	66
21 - -	1202	38	39	8	17	27	49	18	11	26	78	34	13	17	42	38	62
22 - -	1206	38	33	14	25	29	63	19	23	20	56	29	17	10	41	31	72
23 - -	1236	39	40	4	30	33	56	16	10	4	77	40	19	15	63	34	68
24 - -	1154	36	31	16	16	31	62	17	15	12	76	34	19	24	45	30	47
25 - -	1320	41	39	14	24	27	78	12	17	16	107	38	19	19	41	39	63
26 - -	1292	40	53	16	18	32	60	15	14	11	88	34	14	14	58	27	72
27 - -	1337	42	40	18	29	32	58	21	20	16	100	43	20	22	33	31	55
28 - -	1333	42	41	8	25	30	69	15	25	13	72	25	23	13	59	25	57
29 - -	1332	42	32	23	23	37	72	12	12	15	90	27	15	6	31	27	80
30 - -	1337	43	38	8	28	32	82	13	11	18	119	32	23	18	45	26	70
31 - -	1499	47	35	20	31	41	75	10	23	16	97	44	20	14	54	23	64
32 - -	1544	48	37	7	19	48	80	18	17	16	124	21	21	25	38	33	86
33 - -	1545	48	44	12	43	43	68	6	10	16	115	27	24	17	47	30	62
34 - -	1624	51	35	17	28	34	93	14	10	29	102	18	19	18	49	27	87
35 - -	1700	53	48	18	38	39	82	16	19	21	137	27	33	20	51	18	71
36 - -	1890	59	40	12	30	41	99	14	10	29	144	27	35	29	53	32	77
37 - -	1934	62	35	12	35	48	70	14	19	49	145	24	38	27	58	43	91
38 - -	2070	65	42	18	29	64	87	20	15	32	161	41	30	41	67	34	90
39 - -	2238	71	49	19	31	54	85	21	17	46	154	30	15	41	83	48	88
40 - -	2401	75	32	14	47	43	87	23	21	50	180	39	31	48	81	47	105
41 - -	2459	77	51	8	36	54	102	24	28	58	188	56	26	55	70	58	112
42 - -	2410	75	35	16	41	58	81	20	30	55	147	41	38	43	73	54	103
43 - -	2463	77	48	13	46	53	88	25	33	42	132	33	32	67	92	46	93
44 - -	2439	76	38	14	44	66	72	11	22	61	135	41	41	50	104	44	113
45 - -	2377	74	38	16	39	60	70	20	27	64	135	58	33	59	82	52	101
46 - -	2352	74	31	18	50	51	84	28	19	71	119	41	39	43	88	56	106
47 - -	2309	72	22	17	43	61	60	25	27	69	118	35	41	45	59	50	118
48 - -	2193	69	38	8	30	50	56	22	33	49	127	37	32	38	72	59	90
49 - -	2066	65	25	16	35	47	44	18	25	63	117	32	35	44	59	50	100
50 - -	1996	62	15	18	40	46	47	19	25	45	113	19	29	34	62	45	95
51 - -	1771	55	16	10	33	49	42	21	19	36	110	29	30	41	60	33	79
52 - -	1704	53	27	12	35	54	39	13	13	41	94	25	22	36	50	34	82
53 - -	234	57	—	—	—	—	—	—	—	43	—	—	—	—	—	40	—

London in the Thirty-two Years 1840-71.

Number of Week.	1855.	1856.	1857.	1858.	1859.	1860.	1861.	1862.	1863.	1864.	1865.	1866.	1867.	1868.	1869.	1870.	1871.
YEAR	2,602	1,795	1,587	4,118	4,197	1,977	2,358	3,457	5,075	3,242	2,181	1,885	1,438	2,921	5,803	5,098	1,896
March Quarter	705	394	353	473	1,167	548	420	774	880	749	566	468	339	368	648	1,296	722
June "	589	412	241	588	794	366	326	677	1,055	593	385	397	248	352	675	1,076	369
September "	534	433	349	1,243	968	471	467	841	1,519	805	516	489	361	738	1,770	1,674	351
December "	774	556	644	1,814	1,268	602	1,145	1,165	1,621	1,095	714	581	490	1,463	2,710	1,952	454
1 - -	85	35	29	36	119	43	63	77	73	74	56	34	35	43	69	134	112
2 - -	63	32	36	39	102	62	37	73	82	90	55	32	33	49	64	114	77
3 - -	80	35	37	33	111	43	27	57	81	73	52	33	45	36	64	143	68
4 - -	75	43	31	42	113	33	34	60	63	53	57	37	36	22	53	118	66
5 - -	54	33	29	31	92	39	21	70	49	58	46	40	22	31	45	107	49
6 - -	54	31	25	27	89	47	22	83	61	55	45	37	22	27	56	103	46
7 - -	49	23	30	39	90	40	20	50	69	55	52	36	20	36	39	104	48
8 - -	47	28	23	53	68	33	36	60	60	57	34	37	20	30	43	111	47
9 - -	36	24	19	37	77	37	31	61	68	65	33	35	23	23	56	78	53
10 - -	40	24	22	41	79	51	37	41	67	44	41	54	27	16	39	69	54
11 - -	35	32	24	40	81	33	27	49	66	41	27	33	13	12	33	81	33
12 - -	35	26	28	29	77	23	34	50	76	37	34	25	25	20	43	56	36
13 - -	42	28	20	26	69	40	22	43	65	47	34	30	18	23	44	78	33
14 - -	51	35	12	33	71	26	19	66	80	48	26	21	15	12	39	71	36
15 - -	42	29	23	37	51	20	20	54	86	44	33	27	25	16	41	70	40
16 - -	46	27	26	40	79	26	22	75	86	50	29	27	19	22	38	77	27
17 - -	45	22	20	32	73	33	24	65	65	45	21	17	19	27	42	68	30
18 - -	38	27	17	38	69	35	25	53	74	40	24	31	19	29	53	74	29
19 - -	35	35	27	36	60	25	25	39	73	51	22	30	24	28	56	76	35
20 - -	41	33	14	48	55	30	21	58	89	52	24	30	12	31	45	81	28
21 - -	52	33	12	50	63	26	31	57	94	38	34	19	16	35	45	90	23
22 - -	48	40	16	46	49	27	29	41	78	52	25	48	18	29	62	91	25
23 - -	53	42	18	47	54	22	31	37	72	47	31	43	18	41	54	103	34
24 - -	45	33	14	55	56	28	28	39	72	36	27	31	16	22	60	100	17
25 - -	54	26	20	65	51	35	24	44	97	36	42	39	18	32	65	95	24
26 - -	39	30	22	61	63	23	27	49	89	54	47	34	29	28	75	80	16
27 - -	56	27	19	64	47	33	25	52	73	56	40	39	19	36	85	104	24
28 - -	44	25	20	73	48	29	30	48	113	58	37	44	23	39	77	85	40
29 - -	35	32	17	58	56	32	27	55	87	53	29	22	34	64	75	130	24
30 - -	38	19	13	78	52	31	20	48	110	63	38	30	30	47	88	100	19
31 - -	37	37	20	86	83	36	30	59	122	58	23	34	22	47	100	114	24
32 - -	33	35	32	85	67	37	22	72	115	46	47	31	20	50	114	118	30
33 - -	34	31	16	105	68	37	42	58	118	38	29	37	35	54	132	126	21
34 - -	39	26	40	92	91	34	41	68	125	59	47	39	19	49	143	108	24
35 - -	43	31	28	110	68	37	34	50	127	62	39	27	26	57	170	129	24
36 - -	42	29	27	115	84	39	48	77	127	73	52	43	29	63	179	165	26
37 - -	38	51	44	118	113	36	48	85	124	72	43	42	38	57	178	157	32
38 - -	50	39	39	125	94	44	45	85	130	72	41	42	34	74	191	167	27
39 - -	45	51	34	134	97	46	55	84	143	95	51	59	32	101	238	171	36
40 - -	63	47	35	145	106	52	99	88	154	80	53	51	30	99	216	192	38
41 - -	50	46	52	160	94	48	60	96	146	88	59	36	38	109	234	193	29
42 - -	76	49	49	156	99	49	87	75	114	100	53	40	39	124	233	192	40
43 - -	53	38	52	156	102	54	96	104	136	95	60	46	36	105	229	167	31
44 - -	70	40	53	138	97	47	94	94	120	110	59	45	54	109	241	174	38
45 - -	61	56	52	145	106	47	111	89	125	81	62	30	39	119	213	150	32
46 - -	65	41	56	133	105	38	101	100	121	85	55	45	37	116	208	162	40
47 - -	73	42	50	163	97	40	117	106	119	90	55	42	32	118	219	122	34
48 - -	62	38	43	128	100	45	81	95	112	101	53	33	44	99	245	130	39
49 - -	53	45	44	137	97	50	70	88	88	69	63	54	32	107	209	116	34
50 - -	48	46	55	112	89	52	78	84	114	83	43	38	31	108	186	135	37
51 - -	45	42	48	106	99	35	82	69	101	60	43	30	48	100	123	104	28
52 - -	50	26	30	135	77	45	69	77	78	53	46	41	30	67	159	110	34
53 - -	—	—	25	—	—	—	—	—	93	—	—	—	—	83	—	—	—

TABLE 13.—Deaths in the London Districts Registered in each Year during 10 Years, 1862-1871, with the Mean Temperature for the same Periods.

DISTRICTS.	Enu- merated POP- ULATION,* 1871.	1862	1863	1864	1865	1866	1867	1868	1869	1870	1871 (52 weeks)
Mean Temperature - - -	—	49°·5	50°·3	48°·5	50°·3	49°·8	48°·6	51°·6	49°·5	48°·7	48°·7
LONDON - - -	3,254,260	67,371	71,000	78,238	73,531	80,453	70,924	73,798	78,082	77,684	80,332
1 KENSINGTON - - -	283,153	4097	4371	4944	4763	4837	5067	5298	5453	6006	5730
2 CHELSEA - - -	71,089	1554	1623	1764	1652	1717	1568	1739	1772	1927	1879
3 ST. GEORGE HANOVER SQ. -	155,996	3637	3878	4138	3885	3908	3612	3672	3620	3903	3690
4 WESTMINSTER - - -	51,181	1061	1141	1185	1103	1178	1086	1092	1180	1252	1126
5 MARYLEBONE - - -	159,254	3872	4048	4211	4070	4146	4125	3863	3084	3945	3848
6 HAMPSTEAD - - -	32,281	308	330	372	408	396	411	400	459	550	1636
7 PANCRAS - - -	221,465	4536	4747	5449	5254	5263	4851	4888	5067	5407	5439
8 ISLINGTON - - -	213,778	3496	4340	4594	4617	5154	4509	4886	4937	5078	5050
9 HACKNEY - - -	124,951	1753	1937	2143	2193	2405	2268	2247	2650	2476	3322
10 ST. GILES - - -	53,556	1498	1466	1630	1591	1505	1435	1345	1459	1421	1264
11 STRAND - - -	41,339	1246	1330	1529	1382	1320	1170	1253	1210	1263	1140
12 HOLBORN - - -	163,491	4171	4231	4758	4944	4428	3885	4042	4201	4062	3871
13 LONDON CITY - - -	75,933	2992	3041	3068	2819	2558	2253	2232	2316	2058	2016
14 SHOREDITCH - - -	127,164	3327	3330	3648	3326	3436	2973	3242	3462	3210	3371
15 BETHNAL GREEN - - -	120,104	2555	2597	3079	2780	3340	2778	2985	3252	2850	3039
16 WHITECHAPEL - - -	76,573	2574	2713	2813	2549	3525	2350	2519	2627	2471	2465
17 ST. GEORGE-IN-THE-EAST -	48,052	1333	1265	1588	1393	1881	1238	1238	1408	1273	1390
18 STEPNEY - - -	57,990	1409	1479	1414	1373	1850	1176	1334	1492	1256	1266
19 MILE END OLD TOWN -	93,152	1844	1761	1942	1845	2438	1884	1934	2245	1993	2238
20 POPLAR - - -	116,376	2053	2430	2306	2846	3706	2476	2375	3050	2838	2943
21 ST. SAVIOUR SOUTHWARK -	175,040	4110	4577	4856	4196	4724	4185	4270	4793	4379	4676
22 ST. OLAVE SOUTHWARK -	122,398	2974	3063	3030	3026	3167	2982	3127	3703	3220	3520
23 LAMBETH - - -	208,342	3773	3756	4265	4110	4190	4061	4386	4371	4615	5466
24 WANDSWORTH - - -	125,060	1376	1493	1636	1813	2083	1951	2152	2390	2674	2867
25 CAMBERWELL - - -	111,306	1567	1704	1851	1909	2056	2065	2262	2361	2377	2352
26 GREENWICH - - -	100,600	2254	2504	2954	2550	2494	2266	2409	2438	2491	2239
27 LEWISHAM - - -	51,357	559	555	671	623	782	691	773	794	894	814
28 WOOLWICH - - -	73,980	1442	1345	1845	1566	1561	1598	1585	1388	1685	1445

NOTE.—The Deaths in this Table are compiled from the Abstracts which appear in the Registrar General's Annual Reports; excepting for the year 1871, in which the Deaths are derived from the Weekly Returns embracing 52 weeks.

* These are the "revised" Census numbers, and will be found to differ from the "unrevised" figures hitherto published.

TABLE 14.—Deaths in 156 Public Institutions, registered in the 52 Weeks ending Saturday 30th December 1871.

		DEATHS.			PUBLIC INSTITUTIONS.	SUB-DISTRICT in which the Public Institution is situated.	DEATHS.		
		Total.	Males.	Females.			Total.	Males.	Females.
TOTAL DEATHS IN 157 PUBLIC INSTITUTIONS		14605	8271	6394	WORKHOUSES—continued.				
					No. of Dist. and Sub-dist.				
62 WORKHOUSES		6675	3371	3304	Stepney (for Children) - 18; 3. Limehouse - - - 6 2 4				
12 PRISONS		76	57	19	Mile End Old Town - 19; 2. Eastern - - - 165 73 92				
3 MILITARY AND NAVAL ASYLUMS		81	81	-	City of London - - - { 19; 2. Mile End Old Town Eastern - - - } 4 - -				
					20; 1. Bow - - - 185 98 87				
30 GENERAL HOSPITALS		3796	2420	1376	Stepney (for the Aged and Infirm) - 20; 1. Bow - - - 107 62 45				
26 HOSPITALS FOR SPECIAL DISEASES		3320	1863	1457	Poplar and Stepney Sick Asylum - 20; 1. Bow - - - 96 52 44				
5 LYING-IN HOSPITALS		16 37	- 18	16 19	Poplar - - - 20; 2. Poplar - - - 101 43 58				
6 MILITARY AND NAVAL HOSPITALS		218	199	19	North Street Infirmary - 20; 2. Poplar - - - 25 17 8				
3 HOSPITALS FOR FOREIGNERS		99	73	26	St. Saviour's (Christchurch) 21; 1. Christchurch - - 100 88 12				
19 LUNATIC ASYLUMS		347	189	158	Ditto (St. George's) 21; 4. Borough Road - 65 30 35				
					Ditto (Newington) - 21; 7. St. Peter Walworth 247 106 141				
					St. Olave's - - - 22; 2. St. John Horsleydn. 100 53 47				
					Ditto (Bermondsey) 22; 4. St. Mary Magdalen 115 50 65				
					Ditto (Rotherhithe) 22; 6. Rotherhithe - - 66 40 26				
					Lambeth (Prince's-road) 23; 4. Lambeth Church 21 3 2				
					Ditto (Supplementary, Vauxhall) - 23; 5. Kennington 1st - 3 2 1				
					Ditto (for Children) 23; 3. Norwood - - 3 2 1				
					Wandsworth and Clapham 24; 2. Battersea - - 153 93 60				
					Camberwell (Havill-street) 25; 2. Camberwell - 132 66 66				
					Ditto (Nazareth House) - 25; 3. Peckham - - 4 4 -				
					Greenwich - - - 26; 4. Greenwich East - 233 110 123				
					Lewisham - - - 27; 3. Lewisham Village - 28 15 13				
					Woolwich - - - 28; 5. Plumstead East - 27 11 16				
PUBLIC INSTITUTIONS.		SUB-DISTRICT in which the Public Institution is situated.			PRISONS.*				
WORKHOUSES.		No. of Dist. and Sub dist.			Fulham - - - 1; 7. Fulham - - - 1 - 1				
Paddington - - - 1; 1. St. Mary Paddington		138	64	69	Millbank Penitentiary - 3; 4. St. John Westmr. - 15 8 7				
Kensington - - - 1; 3. Kensington Town -		153	82	71	Westminster House of Correction - - - 9 1 8				
Fulham - - - 1; 7. Fulham - - -		65	30	35	Pentonville or Model Prison (Males) - - - 8 8 -				
Chelsea - - - 2; 2. Chelsea North-west		150	74	76	City Prison (Holloway) - 8; 1. Islington West - 4 4 -				
St. George's (Little Chelsea) 2; 2. Chelsea North-west		67	12	55	Middlesex House of Detention - - - 12; 4. St. James Holborn 2 2 -				
Ditto (Mount-street) 3; 2. May Fair - - -		72	44	28	Middlesex House of Correction (Males) - - - 12; 5. Amwell Holborn 25 25 -				
Ditto (Kensington) 3; 5. St. Margaret, Westmr.		175	93	82	Newgate - - - 13; 3. St. Sepulchre - 1 1 -				
Ditto (York-street) 3; 5. St. Margaret, Westmr.		77	39	38	Convict Prison, South-wark - 21; 4. Borough Road - - - - -				
Westminster - - - 4; 2. Golden Square - - -		122	63	59	Surrey County Gaol - 21; 6. Trinity Newington - 1 - 1				
Marylebone (Workhouse and Infirmary) - - - 5; 3. Rectory Marylebone		434	200	234	Convict Prison - - - 23; 7. Brixton - - - 1 1 -				
Hampstead - - - 6; 1. Hampstead - - -		34	17	17	Surrey House of Correction 24; 3. Wandsworth - - 9 7 2				
Strand - - - 7; 2. Tottenham Court - - -		124	63	61	HOSPITALS, &c.				
Paneras - - - 7; 5. Camden Town - - -		369	172	197	Royal Military and Naval Asylums:				
Highgate Infirmary (Central London Sick Asylum) - - - 7; 6. Kentish Town -		182	84	98	Royal Military Hospital Chelsea, In-Pensioners, 2; 1. Chelsea South - 78 78 -				
Islington - - - 8; 1. Islington West - - -		11	5	6	Royal Military Asylum, Chelsea, Boys - 2; 1. Chelsea South - 2 2 -				
City of London - - - 8; 2. Islington East - - -		52	17	35	Naval School, Royal Hospital, Greenwich, Boys, 26; 4. Greenwich East - 1 1 -				
Islington (Upper Holloway) - - - 8; 2. Islington East - - -		227	101	126	General Hospitals:				
Hackney - - - 9; 4. Hackney - - -		123	63	60	St. Mary's - - - 1; 2. St. John Paddington 189 118 71				
City of London - - - 9; 4. Hackney - - -		60	32	34	West London Hospital - 1; 6. St. Paul Hammersm. 24 15 9				
St. Giles - - - 10; 2. St. Giles South - - -		201	109	92	Victoria Hospital (Children) - 2; 1. Chelsea South - 9 7 2				
Holborn (Gray's Inn) - 12; 2. St. Andrew Eastern		271	157	114	St. George's - - - 3; 3. Belgrave - 288 159 99				
Ditto (Clerkenwell) - 12; 4. St. James Holborn -		75	36	39					
Ditto (St. Luke's) - 12; 9. City-road - - -		4	3	1					
City of London - - - 13; 4. St. Bride - - -		4	3	1					
Holborn (St. Luke's) - 14; 3. Hoxton New Town -		155	71	84					
Shoreditch - - - 14; 5. Haggerstone West - - -		234	110	124					
Bothnal Green - - - 15; 2. The Green - - -		250	142	108					
Whitechapel - - - 16; 3. Mile End New Town - - -		304	175	129					
St. George-in-the-East - 17; 3. St. John - - -		245	118	127					
Stepney - - - 18; 1. Shadwell - - -		12	10	2					

* The deaths of the children of prisoners are not included.

The workhouses printed in italics do not belong to the district in which they are situated.

TABLE 14.—Deaths in 156 Public Institutions, registered in the 52 Weeks ending Saturday 30th December 1871—continued.

PUBLIC INSTITUTIONS.	SUB-DISTRICT in which the Public Institution is situated.	DEATHS.			PUBLIC INSTITUTIONS.	SUB-DISTRICT in which the Public Institution is situated.	DEATHS.		
		TOTAL.	Males.	Females.			TOTAL.	Males.	Females.
HOSPITALS, &c.—continued.					HOSPITALS, &c.—continued.				
<i>General Hospitals—cont. No. of Dist. and Sub-dist.</i>					<i>Hospitals for Special Diseases—cont. No. of Dist. and Sub-dist.</i>				
Belgrave Hospital (Children) - - -	3; 3. Belgrave - - -	9	4	5	St. Mark's (for <i>Fistula</i>) - - -	12; 8. Old Street - - -	1	1	-
Westminster - - -	3; 5. St. Margaret Westm. - - -	154	96	58	Royal Hospital for Disease of Chest (City-rd.) - - -	12; 9. City-road - - -	9	7	2
Convent, Carlisle-place (Hospital for Sick and Destitute Children) - - -	3; 5. St. Margaret Westm. - - -	61	27	34	Small-pox Hospital - - -	12; 10. Whitecross-street - - -	50	35	15
Middlesex - - -	5; 1. All Souls Marylebone - - -	247	137	110	Temporary Hospital (Small-pox) - - -	14; 2. St. Leonard Shore-ditch - - -	34	16	18
Samaritan Free Hospital - - -	5; 3. Rectory, Marylebone - - -	8	-	8	City of London, for Disease of Chest - - -	15; 2. The Green, Bethnal Green - - -	45	27	18
University College - - -	7; 2. Tottenham Court - - -	206	133	73	Stangate Small-pox Infirmary - - -	23; 3. Lambeth Church, 1st - - -	3	1	2
Royal Free Hospital - - -	7; 3. Gray's-inn Lane - - -	131	102	29	Temporary Small-pox Hospital - - -	22; 6. Rotherhithe - - -	15	6	9
Great Northern Hospital - - -	8; 1. Islington West - - -	26	13	8	Small-pox (Stockwell) - - -	23; 7. Brixton - - -	650	379	271
Charing Cross - - -	11; 2. Charing Cross - - -	141	96	45	The Dreadnought (Temporary Small-pox) - - -	26; 3. Greenwich West - - -	3	8	-
King's College - - -	11; 4. St. Clement Dances - - -	182	127	55	Small-pox Hospital, Hither Green - - -	27; 3. Lewisham Village - - -	2	1	1
London Homeopathic Hospital - - -	12; 1. St. George the Martyr Holborn - - -	12	7	5	<i>Lying-in Hospitals:</i>				
St. John and St. Elizabeth Hospital - - -	12; 1. St. George the Martyr Holborn - - -	13	-	13	Queen Charlotte's - - -	5; 4. St. Mary (Women Marylebone) Children - - -	7	-	7
Hospital for Sick Children - - -	12; 1. St. George the Martyr Holborn - - -	73	33	40	St. Saviour's - - -	8; 2. Islington East - - -	5	2	3
City Police Hospital - - -	13; 1. St. Botolph, London City - - -	4	4	-	British - - -	10; 2. St. Giles (Women South) Children - - -	4	2	2
Metropolitan Free Hospital - - -	13; 1. St. Botolph, London City - - -	17	10	7	City of London - - -	12; 9. City Road (Women Children) - - -	4	2	3
St. Bartholomew's - - -	13; 3. St. Sepulchre, London City - - -	563	357	206	Hospital, York Road - - -	23; 2. Waterloo, 2d Part - - -	1	1	1
North-eastern Children's Hospital - - -	14; 2. St. Leonard Shore-ditch - - -	20	9	11	<i>Military and Naval Hospitals:</i>				
London - - -	16; 5. Whitechapel Church - - -	550	367	183	Grenadier Guards Hospit. - - -	3; 4. St. John Westminster - - -	11	11	-
East London Children's Hospital - - -	18; 2. Ratcliff, Stepney - - -	39	16	23	Coldstream Guards Hospit. - - -	3; 4. St. John Westminster - - -	8	8	-
Poplar - - -	20; 1. Bow - - -	15	13	2	Scots Fusilier Guards Hosp. - - -	3; 4. St. John Westminster - - -	14	14	-
Guy's - - -	21; 2. St. Saviour - - -	12	1	11	Seamen's Hospital - - -	26; 4. Greenwich East - - -	106	106	-
Evelina Hospital - - -	21; 4. Borough-road, St. Saviour, Southwk. - - -	16	10	6	Herbert Hospit. (Military) - - -	28; 1. Charlton - - -	56	52	4
St. Thomas's* - - -	21; 8. St. Mary Newington - - -	121	76	45	Garrison Female Hospital - - -	28; 3. Woolwich Arsenal - - -	23	8	15
Royal Infirmary for Children and Women - - -	23; 3. Lambeth Church, (Lambeth) - - -	97	65	32	<i>Hospitals for Foreigners:</i>				
British Home for Incurables - - -	23; 1. Waterloo, 1st part - - -	14	4	10	French Hospital - - -	4; 4. St. Anne, Soho - - -	14	9	5
Royal Hospital for Incurables - - -	24; 1. Clapham - - -	6	1	5	German Hospital - - -	9; 4. Hackney - - -	83	63	20
<i>Hospitals for Special Diseases:</i>					Spanish and Portuguese - - -	19; 2. Mile End Old Town Eastern - - -	2	1	1
Lock (<i>Syphilis</i>) - - -	1; 1. St. Mary Paddington - - -	1	-	1	LUNATIC ASYLUMS.				
Consumption and Disease of Chest - - -	1; 4. Brompton - - -	98	52	46	Kensington House - - -	1; 8. Kensington Town - - -	1	1	-
Consumption Hospital (Chelsea Home) - - -	2; 1. Chelsea South - - -	3	3	-	Normand House (Females) - - -	1; 7. Fulham - - -	-	-	-
Cancer - - -	2; 2. Chelsea North-west - - -	41	13	28	Munster House (Males) - - -	1; 7. Fulham - - -	5	5	-
Temporary Small-pox Hospital - - -	3; 4. St. John Westminster - - -	5	3	2	Otto House (Females) - - -	1; 7. Fulham - - -	2	-	2
Temporary Sick House for Small-pox - - -	3; 5. St. Margaret Westminster - - -	60	33	27	Sussex & Brandenburgh House (Males) - - -	1; 7. Fulham - - -	1	1	-
Hospital for Women - - -	4; 4. St. Anne Soho - - -	18	-	18	Blacklands House (Males) - - -	2; 3. Chelsea North-east - - -	-	-	-
St. Peter's Hospital (Stone, &c.) - - -	5; 1. All Souls Marylebone - - -	1	1	-	Northumberland House - - -	9; 1. Stoke Newington - - -	7	6	1
Temporary Hospital for Small-pox - - -	5; 6. St. John Marylebone - - -	33	16	17	Brook House - - -	9; 4. Hackney - - -	7	6	1
North London Consumption Hospital - - -	6; 1. Hampstead - - -	20	9	11	Pembroke House - - -	9; 5. South Hackney - - -	-	-	-
Small-pox Hospital - - -	6; 1. Hampstead - - -	1151	638	513	St. Luke's Hospital (for Lunatics) - - -	12; 9. City Road - - -	9	3	6
Small-pox Hospital - - -	7; 5. Camden-town - - -	8	4	4	Hoxton House† - - -	14; 2. St. Leonard - - -	42	16	26
Small-pox Hospital - - -	8; 1. Islington West - - -	183	113	75	Bethnal House† - - -	15; 2. Bethnal Green - - -	27	14	13
London Fever - - -	8; 1. Islington West - - -	227	116	111	Grove Hall† - - -	20; 1. Bow - - -	44	29	15
Small-pox, Old Islington Workhouse - - -	8; 1. Islington West - - -	40	17	23	Bethlehem Hospital - - -	21; 5. London Road - - -	18	9	9
Small-pox, Homerton. - - -	9; 4. Hackney - - -	614	369	245	Effra Hall (Females) - - -	23; 7. Brixton - - -	1	-	1
					Retreat - - -	24; 1. Clapham - - -	-	-	-
					Surrey County - - -	24; 3. Wandsworth - - -	100	59	41
					Peckham House† - - -	25; 2. Camberwell - - -	41	22	19
					Camberwell House† - - -	25; 2. Camberwell - - -	42	18	24

* Deaths in the new St. Thomas's Hospital, situated in Lambeth Church 1st sub-district, were first registered in the 36th week of the year 1871.
† Lunatic Asylums where paupers are received.

TABLE 15.—Deaths in the Public Institutions of London.

	1863.	1863.	1864.	1865.	1866.	1867.	1868.	1869.	1870.	1871.
TOTAL DEATHS IN PUBLIC INSTITUTIONS .	11313	11112	12731	12116	13054	12002	12326	12298	12300	14665
WORKHOUSES	6401	6187	7055	6715	7088	6829	6789	7063	6833	6675
PRISONS	53	64	125	99	95	90	75	83	73	76
MILITARY AND NAVAL ASYLUMS	307	239	315	278	195	147	176	165	86	81
GENERAL HOSPITALS	3167	3169	3558	3354	3813	3291	3714	3480	3614	3796
HOSPITALS FOR SPECIAL DISEASES	690	827	982	1002	1167	929	933	849	981	3320
LYING-IN HOSPITALS	35	11	24	26	22	31	15	13	31	16
{ Women	40	37	48	42	50	51	46	41	40	37
{ Children	236	203	215	178	146	177	163	170	200	218
MILITARY AND NAVAL HOSPITALS	74	61	82	71	96	100	79	93	102	99
HOSPITALS FOR FOREIGNERS	310	264	327	353	382	357	336	336	335	347
LUNATIC ASYLUMS										

TABLE 16.—Deaths in London; and Meteorology at Greenwich Observatory.

YEARS.	Total Number of Deaths. (a)	Mean Temperature of Air.	Dryness of Atmosphere.*	Fall of Rain in Inches.	Mean Daily † Amount of Horizontal Movement of the Air by Robinson's Anemometer.
Averages of 32 Years, 1840-1871. }	62,350	49° 3	5° 6	24° 0	\$ 249
Averages of 10 Years, 1840-1849. }	51,976	49° 3	5° 1	24° 3	—
Averages of 10 Years, 1850-1859. }	59,693	49° 3	5° 9	23° 2	241
Averages of 10 Years, 1860-1869. }	72,086	49° 4	5° 7	25° 3	255
1840.	46281	47° 7	5° 0	18° 3	—
1841.	45284	48° 7	5° 0	33° 3	—
1842.	45272	49° 6	4° 6	22° 6	—
1843.	46574	49° 4	3° 7	24° 6	—
1844.	50423	48° 6	4° 9	24° 9	—
1845.	48332	47° 6	4° 4	22° 4	—
1846.	49089	51° 3	5° 1	25° 3	—
1847.	60442	49° 5	5° 4	17° 8	—
1848.	57625	56° 4	6° 4	30° 2	—
1849.	68432	50° 0	6° 6	23° 9	—
1850.	48579	49° 3	6° 1	19° 7	263
1851.	55354	49° 2	6° 5	21° 6	247
1852.	54213	50° 6	7° 4	34° 2	254
1853.	61202	47° 7	6° 2	29° 0	223
1854.	73697	48° 9	4° 7	18° 7	247
1855.	61506	47° 1	4° 5	21° 1	237
1856.	56786	49° 0	5° 6	22° 2	254
1857.	60150	51° 0	5° 2	21° 4	223
1858.	63882	49° 2	6° 5	17° 8	232
1859.	61617	50° 7	6° 0	25° 9	228
1860.	61821	47° 0	4° 6	32° 0	239
1861.	65001	49° 4	5° 0	20° 8	238
1862.	66950	49° 5	4° 7	26° 2	240
1863.	72346	50° 3	6° 0	20° 0	246
1864.	77723	48° 5	7° 0	16° 7	228
1865.	73460	50° 3	6° 2	29° 0	222
1866.	80129	49° 8	5° 6	30° 5	274
1867.	70583	48° 6	5° 6	28° 4	283
1868.	74608	51° 6	6° 8	25° 2	293
1869.	77933	49° 5	5° 7	24° 1	293
1870.	77278	48° 7	6° 7	18° 5	266
1871.	80332	48° 7	6° 6	22° 3	251

NOTE.—This Table does not include the deaths in Wandsworth and Clapham for the years 1840-3; nor the deaths in Hampstead and Lewisham for 1840-6.

(a) Compiled from the Registrar General's Weekly Returns which embrace 364 days; and for five years (1847, 1853, 1857, 1863, and 1868) 371 days.

* The column headed "Dryness of Atmosphere" is the difference between the dew point temperature and air temperature. The dew point temperature, for any year, may be obtained by subtracting the number in the column headed "dryness" from the mean temperature in the same period.

† For the years 1850-59 the results are only approximative, having been reduced to Robinson's anemometer from observations made with Whewell's.

‡ Average of 31 years.

§ Average of 22 years.

|| Average of 9 years.

TABLE 17.—Temperature at Greenwich, Total Deaths, and Deaths at Seven different Ages in London, in each Week of the Year 1871.

Number of Week.	WEEK ENDING	TEMPERATURE.			AGES AT DEATH.							
		Mean.	Highest Reading by Day.	Lowest Reading by Night.	ALL AGES.	Under 1 Year of Age.	1-5	5-20	20-40	40-60	60-80	80 and upwards.
	YEAR (of 52 Weeks) }	48°7	89°2	18°3	80,332	19,201	14,143	6,853	12,064	12,530	12,734	2,807
	March Quarter	40°2	70°9	18°3	21,889	4,433	3,806	1,961	3,285	3,624	3,930	850
	June "	51°5	79°5	29°1	18,815	3,918	3,241	1,976	3,374	2,949	2,745	612
	September "	61°3	89°2	39°0	18,637	6,299	3,036	1,384	2,506	2,541	2,353	518
	December "	41°8	68°4	18°6	20,991	4,551	4,060	1,532	2,899	3,416	3,706	827
1	January 7	31°1	45°9	19°2	1828	343	308	142	242	330	391	72
2	" 14	33°0	44°3	18°3	1896	349	311	135	241	355	412	93
3	" 21	37°1	46°7	30°7	1846	343	307	156	271	294	377	98
4	" 28	32°4	46°0	25°0	1632	345	254	142	224	232	320	65
5	February 4	34°9	47°9	28°2	1683	329	274	139	234	235	306	66
6	" 11	41°6	52°2	25°0	1749	359	281	166	260	281	333	69
7	" 18	42°7	54°7	28°5	1625	348	294	142	247	265	280	49
8	" 25	43°8	54°8	31°9	1633	343	284	163	246	263	267	67
9	March 4	45°7	64°8	30°1	1591	343	300	174	237	259	215	63
10	" 11	46°3	67°2	33°7	1601	342	310	162	244	242	238	63
11	" 18	41°7	59°4	28°9	1576	339	277	150	259	251	256	44
12	" 25	47°1	70°9	30°2	1665	333	310	151	279	276	264	52
13	April 1	43°8	67°4	31°2	1564	317	296	139	251	241	271	49
14	" 8	43°1	56°7	29°1	1493	306	267	157	262	238	196	67
15	" 15	48°3	66°5	30°0	1722	366	304	174	291	262	249	76
16	" 22	50°0	62°8	41°3	1578	318	265	167	277	244	258	49
17	" 29	50°7	64°9	42°7	1469	311	273	158	243	226	212	41
18	May 6	49°7	69°9	36°1	1522	302	266	183	276	253	193	49
19	" 13	47°6	72°9	34°0	1341	272	247	142	232	189	213	46
20	" 20	50°1	69°8	36°3	1486	321	232	154	262	216	207	44
21	" 27	56°7	79°5	38°8	1401	262	223	153	270	227	217	49
22	June 3	53°9	74°6	40°3	1393	275	238	137	242	236	223	42
23	" 10	49°9	66°8	38°7	1437	234	264	150	271	218	219	31
24	" 17	59°5	77°2	47°0	1349	294	183	135	257	229	204	47
25	" 24	56°2	72°9	47°5	1296	282	213	131	248	196	189	37
26	July 1	56°6	72°2	40°0	1323	325	216	135	238	215	165	34
27	" 8	60°5	76°5	48°8	1200	273	193	122	199	190	185	38
28	" 15	61°7	80°6	49°0	1259	302	205	127	202	182	197	44
29	" 22	65°5	82°6	54°0	1281	379	199	97	200	212	164	30
30	" 29	60°4	76°6	51°9	1420	523	216	104	203	159	177	38
31	August 5	60°3	80°5	46°8	1382	502	204	106	177	188	165	40
32	" 12	68°3	88°2	51°9	1568	584	243	125	192	193	191	40
33	" 19	67°1	89°2	54°0	1715	710	250	107	187	204	217	40
34	" 26	63°0	78°7	50°6	1682	719	243	100	194	197	180	44
35	September 2	64°0	82°0	46°1	1485	565	259	86	178	184	178	35
36	" 9	60°5	76°3	46°6	1422	514	253	94	189	161	160	51
37	" 16	62°6	78°6	52°5	1422	474	243	112	178	223	157	35
38	" 23	53°6	67°6	39°0	1411	418	268	97	201	203	181	43
39	" 30	50°2	65°6	41°9	1390	336	255	107	206	245	201	40
40	October 7	51°9	64°8	41°5	1283	298	243	121	178	212	183	48
41	" 14	45°5	59°2	31°2	1275	262	235	103	202	203	221	49
42	" 21	53°5	68°4	34°5	1391	259	233	100	197	206	238	58
43	" 28	46°9	58°6	33°0	1364	286	241	115	213	230	236	43
44	November 4	47°3	57°8	41°8	1400	274	278	129	201	224	230	64
45	" 11	39°2	50°0	26°4	1365	332	239	106	206	209	221	52
46	" 18	35°3	44°2	20°3	1863	393	349	119	222	239	236	62
47	" 25	34°4	42°9	28°5	1913	437	376	121	250	342	338	73
48	December 2	29°8	39°7	18°6	1856	434	375	136	233	315	359	77
49	" 9	30°9	47°2	27°2	2121	440	455	133	247	284	322	68
50	" 16	36°4	45°8	35°3	1943	393	420	119	254	319	361	77
51	" 23	41°6	48°4	36°0	1686	358	343	122	224	281	292	66
52	" 30	43°0	48°4	36°0	1686	358	343	122	224	281	292	66

TABLE 18.—Births and Deaths in London; and Meteorology at Greenwich, in each of the 52 Weeks of 1871.

No. of Week.	Week ending	BIRTHS.			DEATHS.			Mean Temperature of the Air.	Mean of the		Dryness of Atmosphere.*	Fall of Rain in Inches.	Amount of Horizontal Movement of the Air in each Week.†
		Total.	Males.	Females.	Total.	Males.	Females.		Highest Readings of the Thermometer.	Lowest Readings of the Thermometer.			
1	January 7	2368	1173	1195	1823	902	926	31.1	36.3	25.5	4.3	0.07	Miles. 1655
2	" 14	2357	1204	1153	1896	937	959	33.0	37.2	28.2	3.4	0.08	1547
3	" 21	2362	1187	1175	1846	915	931	37.1	41.8	34.1	2.0	1.32	2142
4	" 28	2318	1183	1135	1632	824	808	32.4	36.4	29.1	4.2	0.54	2225
5	Feb. 4	2350	1173	1177	1685	891	894	34.9	38.2	32.4	2.5	0.19	1123
6	" 11	2466	1267	1209	1749	875	874	41.6	48.0	37.5	5.7	0.12	2547
7	" 18	2363	1249	1114	1623	808	815	42.7	48.7	37.0	3.8	0.02	1812
8	" 25	2463	1278	1185	1633	803	835	43.8	50.6	38.7	5.4	0.06	2519
9	March 4	2410	1220	1190	1591	819	772	45.7	56.3	36.4	6.0	0.11	2183
10	" 11	2261	1141	1120	1601	835	766	46.3	50.4	40.4	6.4	0.47	3047
11	" 18	2297	1150	1147	1576	835	741	41.7	50.1	35.9	5.3	0.58	2202
12	" 25	2429	1223	1201	1635	840	825	47.1	60.9	35.6	5.4	0.02	947
13	April 1	2284	1145	1139	1564	784	780	43.8	52.8	36.9	7.5	0.03	1923
14	April 8	2100	1095	1005	1493	760	733	43.1	53.3	35.0	7.0	0.01	1692
15	" 15	2414	1225	1189	1722	836	886	48.3	59.4	40.1	5.8	0.36	2112
16	" 22	2079	1065	1014	1578	790	788	50.0	58.3	45.7	3.1	1.75	2437
17	" 29	2250	1161	1089	1469	745	724	50.7	61.2	44.7	4.5	0.80	1843
18	May 6	2251	1144	1107	1522	787	735	49.7	62.3	40.1	8.5	0.20	1797
19	" 13	2071	1043	1023	1341	716	625	47.6	58.2	39.1	7.4	0.15	1710
20	" 20	2069	1070	999	1486	778	708	50.1	62.4	41.1	8.6	0.16	1579
21	" 27	1926	917	1009	1401	705	696	56.7	70.2	46.1	9.1	0.22	1468
22	June 3	1992	1024	968	1393	771	622	53.9	68.1	43.8	7.2	0.10	1876
23	" 10	2132	1080	1052	1437	756	681	49.9	60.5	43.6	7.5	0.31	2154
24	" 17	1908	959	949	1349	733	616	59.5	71.6	53.3	4.7	1.05	1110
25	" 24	1938	1008	930	1296	662	634	56.2	66.4	51.4	4.7	1.50	1581
26	July 1	2160	1099	1061	1328	678	650	56.6	68.6	46.3	8.6	0.05	1914
27	July 8	1929	979	950	1200	618	532	60.5	70.3	53.0	7.9	0.87	2253
28	" 15	1904	959	945	1259	639	620	61.7	71.9	54.7	7.1	1.51	2052
29	" 22	2110	1075	1035	1281	697	584	65.5	77.3	57.3	8.4	0.05	1597
30	" 29	2137	1058	1079	1420	734	686	60.4	71.3	53.4	8.1	0.66	2332
31	August 5	2076	1040	1036	1382	723	659	60.3	74.6	48.8	10.2	0.23	1634
32	" 12	2057	1055	1002	1568	805	763	68.3	83.0	55.1	11.2	0.00	920
33	" 19	1992	993	999	1715	895	820	67.1	79.8	56.8	10.6	0.69	1507
34	" 26	2103	1071	1032	1682	863	819	63.0	73.6	54.9	8.0	0.09	2239
35	Sept. 2	2064	1039	1025	1485	786	699	64.0	77.7	52.4	9.9	0.02	1110
36	" 9	2055	1027	1028	1422	727	695	60.5	72.6	52.7	7.1	0.66	1504
37	" 16	2211	1111	1100	1422	672	750	62.6	72.5	55.1	9.7	0.00	1984
38	" 23	2101	1049	1052	1411	707	704	53.6	64.1	46.3	9.9	0.10	1503
39	" 30	1889	976	913	1390	686	704	50.2	57.5	45.4	3.6	3.34	1977
40	October 7	2169	1069	1100	1283	651	632	51.9	61.3	44.9	6.0	0.77	1967
41	" 14	2254	1097	1157	1275	618	657	45.5	57.2	35.1	5.7	0.00	836
42	" 21	2068	1057	1011	1291	672	619	53.5	61.8	45.9	2.7	0.55	1231
43	" 28	2202	1099	1103	1364	686	678	46.9	55.7	39.0	9.0	0.01	1143
44	Nov. 4	2140	1122	1018	1400	679	721	47.3	52.2	44.1	5.7	0.04	1704
45	" 11	2206	1091	1115	1365	705	650	39.2	46.2	32.8	4.7	0.03	1365
46	" 18	2076	1100	976	1626	807	819	35.3	41.8	29.4	4.3	0.29	1502
47	" 25	2119	1083	1036	1363	617	943	36.4	39.6	29.0	3.9	0.10	639
48	Dec. 2	2211	1075	1136	1918	935	983	36.4	40.3	33.1	3.0	0.12	1706
49	" 9	2126	1093	1033	1856	927	929	29.8	34.8	25.1	4.9	0.04	1370
50	" 16	2263	1134	1129	2121	1036	1085	39.9	43.7	35.6	2.7	0.10	1018
51	" 23	2164	1106	1053	1943	960	983	41.6	45.1	37.8	2.2	0.51	2047
52	" 30	1891	993	898	1686	823	863	43.0	46.1	39.4	3.0	0.56	2565

* The column headed "Dryness of Atmosphere" is the difference between the dew point temperature and air temperature. The mean dew point temperature, for any week, may be obtained by subtracting the number in the column headed "dryness" from the mean temperature in the same period.

† By Robinson's Anemometer, adopted in place of Whewell's, which was used formerly.

TABLE 19.—Greenwich Meteorological Elements for the Year 1871. By J. GLAISHER, Esq., F.R.S.

1871. MONTHS.	Mean Reading of the Barometer.	TEMPERATURE OF THE AIR.							Departure from Average of 100 Years. (1771-1876).	Mean Temperature of the Dew Point.	Mean Tension of Vapour.	Weight of Vapour in a Cubic Foot of Air.	Mean additional Weight required for Saturation.	Mean Degree of Humi- dity. Saturation = 100.	Mean Weight of a Cubic Foot of Air.	RELATIVE PROPORTIONS OF WIND.				Mean Amount of Cloud.	RAIN.		
		Highest by Day.	Lowest by Night.	Range in Month.	Mean of all Highest.	Mean of all Lowest.	Mean Daily Range.	Mean for the Month.								N.	E.	S.	W.		Number of Days it fell.	Amount collected.	
January	in.	29.646	50.7	20.3	26.4	30.4	29.3	0.1	29.7	in.	grs.	grs.	87	553	7	8	9	7	6.0	13	2.05		
February	29.847	57.0	23.0	32.0	48.3	37.5	10.8	42.4	+0.1	29.7	0.230	4.7	0.5	86	551	2	4	11	11	7.8	14	1.09	
March	29.876	70.9	28.9	42.0	55.9	36.7	19.3	44.9	+0.3	30.1	0.285	5.7	0.7	79	549	6	6	11	8	5.7	10	1.10	
April	29.648	68.5	29.1	37.4	57.8	41.2	16.6	47.7	+0.7	30.7	0.272	3.1	0.7	83	541	4	7	7	12	7.1	18	3.03	
May	29.907	79.5	34.0	45.5	64.4	49.1	22.3	51.9	+0.7	30.7	0.285	3.3	1.1	74	541	9	11	4	7	5.6	7	0.68	
June	29.761	77.2	38.7	38.5	66.3	47.9	18.4	54.8	+0.4	31.4	0.340	3.9	1.0	75	535	13	5	7	5	8.1	18	2.90	
July	29.690	82.6	46.8	36.5	72.5	54.0	18.6	61.7	+0.4	31.9	0.416	4.6	1.6	76	523	2	2	14	13	6.8	17	3.25	
August	29.855	89.2	46.1	43.1	73.1	53.3	24.3	64.8	+0.0	32.4	0.424	4.7	2.1	69	526	4	10	9	8	3.9	6	0.86	
September	29.719	82.0	39.0	43.0	67.5	50.3	17.2	57.4	+0.9	32.9	0.360	4.0	1.3	76	532	8	11	6	5	6.8	15	4.12	
October	29.785	68.4	31.2	37.2	58.6	41.9	16.7	49.4	+0.2	32.5	0.301	3.5	0.6	86	542	3	7	14	7	5.9	12	1.37	
November	29.816	51.0	20.3	30.7	43.2	32.7	10.5	37.6	+0.7	33.4	0.191	2.8	0.5	88	556	7	9	8	8	5.8	10	0.57	
December	29.925	48.8	18.6	30.2	49.2	34.2	8.0	38.3	+0.8	35.0	0.204	2.4	0.4	88	557	6	2	8	15	6.8	17	1.23	
Means	29.790	68.3	31.3	37.0	57.6	41.8	15.8	48.7	+0.1	42.7	0.285	3.8	0.9	81	543	71	82	106	106	6.5	162	22.30	
																					Sum	Sum	

REPORT on the ANALYSIS of the WATERS supplied by the METROPOLITAN WATER COMPANIES during the several MONTHS of the YEAR 1871. By Professor FRANKLAND, D.C.L., F.R.S., &c.

Royal College of Chemistry,
3d February 1872.

SIR,

THE accompanying tables place before you in a condensed form the results of the analytical examinations of the waters supplied to London by the eight metropolitan companies during the year 1871.

The sources from which these waters are obtained continue to be the same, viz. :—

The Chelsea and Lambeth Companies abstract their water from the Thames, after it has received the polluted Mole and the sewage of about 600,000 people, including the filthy discharges from Oxford, Reading, and Windsor.

The West Middlesex, Southwark, and Grand Junction Companies take their water from the Thames before it joins the Mole, but below the sewer outfalls of Oxford, Reading, and Windsor. The sewage of these towns is not submitted to any process of purification before it is discharged into the river, and the organic matters which it contains in solution reach the intake of the water companies in almost undiminished quantity, and with qualities scarcely appreciably changed. The suspended organic matters of the sewage are to some extent deposited for a time in the sluggish reaches of the river, to be afterwards dislodged and carried down the stream by the next flood.

The East London Company receives its supply of water from the river Lea below the sewer outfalls of Luton, Hertford, and Ware. Some of this sewage is treated with lime before it is discharged into the river; this process, however, only mitigates but does not destroy the polluting qualities of the offensive liquid. According to evidence given before the Rivers Pollution Commission, many privies hang over the river and its affluents. "Whitwell is a place where nearly all the privies hang over the water, and in Welwyn the whole of the sewage runs in." Nevertheless the Lea is much less polluted than the Thames, and it is therefore to be regretted that the East London Company has just spent about 500,000*l.* in conveying water from the Thames to their works in the Lea Valley. This new conduit will probably be brought into operation during the year 1872, when a considerable deterioration in the quality of the water supplied by this company may be looked for.

The New River Company obtains its daily supply of about 23,000,000 gallons from the following sources :—

Chadwell Spring	- - -	4,500,000 gallons.
Chalk well at Amwell Hill, 160 feet deep	- - -	2,400,000 "
" " Amwell End, 390 "	- - -	2,500,000 "
" " Hoddesdon	- - -	2,000,000 "
From the chalk well at Cheshunt, 172 feet deep, and other deep chalk wells more than	- - -	1,100,000 "
From the river Lea above the sewer outfalls of Hertford and Ware, but below those of Luton, Whitwell, and Welwyn	- - -	10,500,000 "
		<hr/> 23,000,000 " <hr/>

The spring and well water is of excellent quality for drinking, but too hard for washing; and even the Lea above the company's intake being largely supplied by springs from the chalk is, notwithstanding some pollution, of very much better quality than the Thames at any part of its course from Lechlade downwards. The proportions of spring, well, and river water given in the above table doubtless vary from season to season, but the numbers stated in the table are believed to show the maximum proportion of spring and well water which the present arrangements of the company allow to be supplied.

The Kent Company obtains its daily supply of about 7,500,000 gallons entirely from deep wells sunk into the chalk. It is the only metropolitan company which

does not distribute any water from polluted rivers. A few years ago there were some defects in the arrangements of this company for dealing with the water between the pumps and delivery mains, but these appear to have been remedied, and during the past two years this water has been uniformly of most excellent quality for drinking and all domestic purposes except washing, for which it is too hard, averaging 8° of hardness above that of the Thames and Lea.

It thus appears that London is at present daily supplied (or can be supplied with the existing plant of the companies) with about the following volumes and qualities of water :—

Good wholesome water from wells and springs in the chalk	-	20,000,000	galls.
More or less impure water derived from polluted rivers	-	87,000,000	„
		<u>107,000,000</u>	„

Unfortunately 12,500,000 gallons of the good and wholesome water are allowed to mix with 11,000,000 gallons of polluted river water before distribution to consumers.

Table A. shows the temperatures of the different waters as delivered into consumers' cisterns on the days when the samples were taken. The following ranges of temperature were observed in the three different kinds of water supplied to London :—

Thames water	-	-	$21^{\circ}\cdot5$ C. ($70^{\circ}\cdot7$ Fahr.) to $2^{\circ}\cdot8$ C. (37° Fahr.)
Lea water	-	-	22° C. ($71^{\circ}\cdot6$ Fahr.) to 3° C. ($37^{\circ}\cdot4$ Fahr.)
Spring and deep well water	$15^{\circ}\cdot5$ C. ($59^{\circ}\cdot9$ Fahr.)	to	$9^{\circ}\cdot4$ C. ($48^{\circ}\cdot9$ Fahr.)

It is thus evident that spring and deep well water preserves a much more uniform temperature than river water, even after circulation through underground mains. It is so much cooler in summer that it never tastes mawkish or vapid, and so much warmer in winter as to render less frequent the freezing and consequent bursting of water pipes. In August and September when the river waters were so warm as to be nauseous to the palate, the deep well water of the Kent Company tasted cool and refreshing, whilst in winter it was at least $9^{\circ}\cdot4$ C. or 17° Fahr. above the freezing point.

Table B. exhibits the weight of solid impurities left on the evaporation of 100,000 parts by weight of each sample. During the years 1869 and 1870, the total solid impurity present in the Thames water delivered in London underwent a continuous diminution. I regret to say that this improvement has not only not been maintained during the past year, but a considerable augmentation of the proportion of these impurities has manifested itself in the water of every company drawing from that river. It was greatest in the Southwark Company's water (2·16 parts per 100,000 of water), and least in the Lambeth Company's water (·87 part in 100,000 parts of water). In the East London Company's water taken from the Lea it amounted to 1·29 part in 100,000, in the New River water to ·5 part, and in the Kent Company's water to ·53 part in 100,000 parts of water.

Tables C. and D. exhibit the proportions of the two chief elements of the organic matter, or *present* pollution, actually existing in the different samples at the time of analysis (organic carbon and organic nitrogen). These analytical determinations reveal the degree of actual contamination with organic impurity, and as the organic matters in the Thames and Lea are to a considerable extent of animal origin these numbers furnish very important information. They show that all the water abstracted from the Thames and that taken by the East London Company from the Lea were markedly more contaminated with organic matter in 1871 than in 1870 whilst the contamination in the New River and Kent Companies' waters was not only much smaller in both years but also considerably less in 1871 than in 1870. In other words the water derived from rivers has deteriorated whilst that derived either wholly or partly from springs and wells in the chalk has improved in quality.

As the water delivered by the Kent Company contains invariably, in a given volume, less organic matter than that present in any of the remaining metropolitan waters, it becomes a convenient standard wherewith to compare the others, and I

have therefore drawn out Table E. which exhibits this comparison for every month in the year. Taking the proportion of organic elements in a given volume of the Kent Company's water as unity, the following are the maximum, minimum, and average quantities present in each of the other metropolitan waters :—

	Maximum.	Minimum.	Average.
Kent	1	1	1
New River	4.5	1.3	2.4
West Middlesex	9.7	2.8	5.8
East London	8.9	4.1	6.1
Chelsea	17.5	3.4	6.3
Grand Junction	17.4	3.6	6.5
Lambeth	16.4	3.5	6.6
Southwark and Vauxhall	15.1	3.7	7.5

When it is borne in mind that organic matter, especially such as is of animal origin, is by far the worst form of impurity occurring in potable water, the above comparison strikingly exhibits the folly of allowing the bright and sparkling water of the spongy chalk, which is nearly free from organic matter, to mix with the sewage and surface drainage of the Thames basin before it is supplied for the domestic use of the most populous and wealthy city in the world.

The tables F. and G. require no comment.

Table H. shows the total weight of combined nitrogen. With a certain unimportant deduction for a minute amount of this element which is met with, in combination, in rain water, this table sums up the evidence of *past* and *present* pollution of each water by nitrogenous organic matter. The evidence is defective, especially in spring and summer, because combined nitrogen constitutes an important part of the food of both animal and vegetable organisms, and hence the table shows that this item undergoes great diminution in the waters of the Thames and Lea during the months of April, May, June, July, August, and September when aquatic life is most active. In the year 1869 the mean amount of total combined nitrogen in 100,000 parts of Thames water was .254 part, in 1870, it was .245 part, and in 1871 it amounted to .233 part. In the river Lea water it was in 1869, on the average .260 part, .242 part in 1870, and .236 part in 1871. There has thus been a progressive diminution in the proportion of combined nitrogen in both rivers since the year 1868.

Table I. shows the *past*, as distinguished from the *present* pollution of the water by sewage and animal matters; it gives, in terms of average London sewage, the amount of previous animal contamination deduced from the analytical results contained in tables F. and G. So far as chemical analysis can show, the whole of this particular portion of the animal matter had been oxidised and converted into mineral and innocuous compounds at the time the analyses were made; but there is always a risk lest some portion (not detectable by chemical or microscopical analysis) of the noxious constituents of the original animal matters should have escaped that decomposition which has resolved the remainder into innocuous mineral compounds. But this evidence of previous contamination implies much more risk when it occurs in water from rivers and shallow wells, than when it is met with in the water of deep wells or of deep-seated springs. In the case of river water, there is great probability that the morbid matter sometimes present in animal excreta will be carried rapidly down the stream, escape decomposition, and produce disease in those persons who drink the water, as the organic matter of sewage undergoes decomposition very slowly when it is present in running water. In the case of shallow well water, the decomposition and oxidation of the organic matter are also very liable to be incomplete during the rapid passage of polluted surface water into shallow wells. In the case of deep well and spring water, however, if the proportion of previous contamination be small, this risk is very inconsiderable, and may be regarded as nil, if the direct access of water from the upper strata be rigidly excluded, because the excessive filtration to which such water has been subjected in passing downwards through so great a thickness of soil or rock, and the rapid oxidation of the organic matters contained in water

when the latter percolates through a porous and aerated soil, afford a considerable guarantee that all noxious constituents have been removed. Thus, whilst the evidence of this previous contamination in the Thames and Lea waters exposes them to grave suspicion, I regard the same evidence—although it is even greater in amount—in the Kent Company's water as practically of no importance, if access of drainage from the upper strata be rigidly excluded from the deep chalk wells. Since the spring of 1868, my analyses afford no indication of any such soakage into these wells.

The causes which I have already described as operating to reduce the total amount of combined nitrogen must obviously be active in obliterating from waters the evidence of their previous contamination with animal matters. The effect of these agencies is seen very prominently in the water delivered by the East London Company, which being long stored in reservoirs before distribution, sometimes has the evidence of its previous sewage or animal contamination entirely obliterated (see column for September in the table) although there can be no doubt that this water is originally more contaminated than that delivered by the New River Company. The numbers in this table are therefore comparative as regards *evidence* of anterior pollution only, but not as regards the *absolute quantity* or proportion of that pollution.

Table K. shows the proportion of chlorine contained in the different samples. This analytical determination serves to detect the afflux of water from the tidal reaches of the Thames into the filter beds and storage reservoirs of the companies, many of which are situated on the banks of the tidal reaches of the Thames and Lea below high water level. During the past year no such admixture has been detected in any of the Companies' waters.

Table L. exhibits the hardness of each sample of water; that is, the number of parts by weight of carbonate of lime (or its equivalent of other soap-destroying compounds) contained in 100,000 parts of the waters. The mean hardness of all the river water delivered in London during the past year was about $1\frac{1}{2}$ greater than it was in 1870. The hardness of the Kent Company's well-water is about 8 degrees greater than that of the river water. This water is, however, readily softened down to one third of the hardness of Thames water by the application to it of Clark's simple and inexpensive process which has been long applied to the water supplied to Caterham, Redhill, Tring and Canterbury, indeed, a portion of the supply was successfully so softened before it was purchased by the Kent water company. During the past year, I continued my experiments upon the applicability of this process to the three kinds of water supplied to London. The results of these experiments are embodied in the following table:

	Total Solid. Impurity.	Organic Carbon.	Organic Nitrogen.	Hardness.
THAMES WATER.				
Grand Junction Company's water - 16th January 1871 -	30·24	·177	·042	21·8
Ditto after Clark's process - 16th " " -	13·84	·153	·019	5·4
Grand Junction Company's water - 8th February " -	31·70	·241	·040	21·2
Ditto after Clark's process - 9th " " -	16·58	·178	·021	7·0
Grand Junction Company's water - 10th March " -	29·56	·145	·016	22·4
Ditto after Clark's process - 10th " " -	13·70	·114	·021	5·7
Grand Junction Company's water - 15th April " -	26·22	·109	·022	20·6
Ditto after Clark's process - 15th " " -	12·18	·080	·013	4·6
Grand Junction Company's water - 9th May " -	28·26	·248	·033	20·6
Ditto after Clark's process - 9th " " -	14·34	·181	·033	6·7
<i>Mixture of River Lea Water with Spring and Deep Well Water.</i>				
New River Company's water - 14th February 1871	30·60	·135	·018	22·4
Ditto after Clark's process - 14th " " -	13·76	·100	·011	6·0
<i>Water from Deep Wells in the Chalk.</i>				
Kent Company's water - - - 16th January 1871	40·42	·045	·014	29·1
Ditto after Clark's process - 16th " " -	19·00	·044	·016	7·0

These results entirely confirm those upon which I reported to you a year ago. They show how considerably the polluted condition of Thames and Lea water can be mitigated by this method of treatment, and how all the hard water supplied to the Metropolis, can easily be rendered soft and suitable for washing and cleansing purposes.

Lastly, table M. exhibits the annual average of each determination, and thus puts in juxta-position the mean results yielded by the water supplied by each company throughout the year.

The qualities of the metropolitan waters referred to in the above tables are either, only partially, or not at all, under the control of the companies supplying the waters; neither are the companies bound by any Act of Parliament to pay the slightest attention to these qualities. No matter how filthy the Thames, for instance, may be in periods of flood, the companies drawing from that river are free at all times to receive and distribute the water; but there is one quality, not yet alluded to, which has been the subject of legislation, viz.:—Clearness or freedom from suspended impurity. The Metropolis Water Bill of 1852 enacted (§ 4.) that “Every Company shall effectually filter all water supplied by them within the Metropolis for domestic use before the same shall pass into the pipes for distribution.” This provision was confirmed by the Metropolitan Water Supply Act of last Session, and an inspector of filter beds has been appointed. The new Act comes into operation during the present month. The following table contains the results of my observations, during the past year, upon the condition of the different samples, as regards efficient filtration, on the occasions when they were drawn from the companies’ mains:—

	Number of Occasions when clear and transparent.	Number of Occasions when slightly turbid.	Number of Occasions when turbid.	Number of Occasions when very turbid.
THAMES.				
Chelsea	10	2	1	2
West Middlesex	15	0	0	0
Southwark	9	4	0	0
Grand Junction	11	1	3	0
Lambeth	7	2	3	2
OTHER SOURCES.				
New River	13	0	0	0
East London	10	3	0	0
Kent	12	0	0	0

As the water of the Kent Company is derived from deep chalk wells, it is not filtered before delivery. The natural filtration which it receives through the pores of the chalk is very greatly superior to the best artificial operation of the kind, and this water has never, for several years past, shown any signs of turbidity. Of the remaining companies I have again to report as in the two previous years, that two only, the West Middlesex and the New River, exhibit efficient filtration, whilst the Chelsea and Lambeth Companies periodically deliver water so muddy as to be entirely unfit, on this account alone, for domestic use.

The suspended matters in turbid water generally abound with moving organisms, and my microscopical examinations during the past year have shown the presence of these organisms in most of the turbid samples delivered by the Chelsea, Southwark, Grand Junction, Lambeth, and East London Companies. The following table contrasts the condition of the waters in this respect in the years 1869, 1870, and 1871:—

					Number of occasions when living organisms were found.		
					1869.	1870.	1871.
West Middlesex	-	-	-	-	0	0	0
New River	-	-	-	-	0	0	0
Kent	-	-	-	-	0	0	0
Southwark	-	-	-	-	8	1	4
East London	-	-	-	-	4	3	3
Grand Junction	-	-	-	-	4	1	1
Lambeth	-	-	-	-	5	0	4
Chelsea	-	-	-	-	3	2	2

An inspection of the above table shows that the improvement regarding the exclusion of animalculæ from the London waters, which I reported at the end of 1870, has not been maintained in all cases.

In conclusion, I trust, that this is the last occasion on which I shall have to report that the Metropolis is still supplied with water on the antiquated and universally condemned intermittent system.

I have, &c.

E. FRANKLAND.

The Registrar General,
&c. &c. &c.

TABLE A.

TEMPERATURE (in Centigrade degrees) of the METROPOLITAN WATERS, as delivered from the Companies' Mains.

NAMES OF COMPANIES.	1871.												
	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
THAMES.													
Chelsea - -	5·0	6·9	9·4	10·6	12·5	13·6	17·5	20·0	19·5	13·0	7·3	4·2	11·6
West Middlesex -	4·7	6·9	9·4	11·9	13·8	14·7	18·5	21·5	20·5	13·3	7·0	4·3	12·2
Southwark - -	2·8	6·5	10·0	11·7	14·3	13·9	18·5	21·5	21·0	13·3	7·0	3·8	12·0
Grand Junction -	3·3	5·6	9·4	9·4	11·2	13·6	17·8	20·3	19·0	12·2	6·7	2·9	10·9
Lambeth - - -	4·2	6·4	9·4	10·8	13·0	13·6	17·8	20·5	20·5	13·0	7·0	3·7	11·7
OTHER SOURCES.													
New River - -	4·4	6·4	9·2	10·6	13·0	15·4	17·7	20·8	20·3	13·8	8·0	4·2	12·0
East London -	6·7	7·8	10·3	11·7	13·7	13·3	17·0	22·0	20·0	13·3	6·0	3·0	12·1
Kent - - - -	9·4	11·1	11·7	12·2	13·3	12·5	15·5	15·0	15·0	13·0	9·7	12·0	12·5

TABLE B.

WEIGHT OF SOLID IMPURITY in 100,000 parts of the WATERS.

NAMES OF COMPANIES.	1871.												
	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
THAMES.													
Chelsea - -	28·76	29·06	28·10	26·60	28·60	24·92	25·90	25·56	25·88	23·70	29·80	29·96	27·65
West Middlesex -	29·42	31·08	29·24	27·84	27·40	24·22	25·26	24·86	25·48	26·80	29·10	29·80	27·54
Southwark - -	33·72	32·00	29·32	27·74	28·80	26·06	25·20	25·60	23·84	23·30	29·16	30·50	28·35
Grand Junction -	30·24	31·70	29·56	26·22	28·26	24·66	26·04	25·92	24·20	27·70	29·00	30·30	27·82
Lambeth - -	27·48	28·94	28·34	26·04	28·60	25·86	26·50	26·40	24·80	27·50	30·00	30·00	27·54
OTHER SOURCES.													
New River - -	31·04	30·60	27·56	25·74	26·76	23·16	24·76	23·14	24·34	23·60	29·10	28·36	26·93
East London -	37·40	35·64	32·26	26·08	26·00	24·88	24·30	22·90	20·98	23·84	31·60	32·02	28·57
Kent - - -	40·42	40·36	39·40	40·94	39·38	40·04	39·14	40·00	38·96	38·60	39·94	40·52	39·81

TABLE C.

ORGANIC CARBON in 100,000 parts of the WATERS.

NAMES OF COMPANIES.	1871.												
	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
THAMES.													
Chelsea - -	·179	·232	·161	·135	·233	·123	·148	·207	·118	·538	·124	·092	·191
West Middlesex -	·150	·198	·141	·128	·213	·118	·153	·171	·133	·283	·247	·142	·173
Southwark - -	·193	·243	·161	·209	·264	·192	·182	·196	·128	·451	·317	·104	·220
Grand Junction -	·177	·241	·145	·109	·248	·141	·185	·194	·130	·500	·116	·101	·191
Lambeth - -	·203	·321	·140	·116	·244	·141	·158	·185	·142	·498	·125	·093	·197
OTHER SOURCES.													
New River - -	·066	·135	·064	·057	·113	·043	·049	·065	·042	·123	·046	·033	·070
East London -	·232	·257	·171	·136	·238	·131	·157	·196	·155	·208	·140	·104	·177
Kent - - -	·045	·026	·026	·018	·023	·019	·021	·038	·027	·022	·028	·015	·026

TABLE G.
NITROGEN as NITRATES and NITRITES in 100,000 parts of the WATERS.

NAMES OF COMPANIES.	1871.												
	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
THAMES.													
Chelsea - -	'331	'355	'264	'179	'207	'141	'151	'039	'074	'220	'192	'259	'205
West Middlesex -	'311	'391	'273	'183	'198	'129	'075	'062	'074	'180	'218	'257	'196
Southwark - -	'385	'391	'247	'178	'213	'140	'104	'055	'073	'173	'211	'259	'202
Grand Junction -	'324	'392	'235	'183	'200	'121	'095	'078	'078	'169	'230	'259	'201
Lambeth - -	'340	'353	'260	'176	'231	'152	'146	'090	'093	'170	'236	'278	'210
OTHER SOURCES.													
New River - -	'309	'377	'273	'199	'208	'137	'154	'138	'144	'270	'221	'264	'224
East London - -	'422	'460	'331	'179	'177	'093	'032	'034	'017	'260	'178	'180	'201
Kent - - -	'370	'463	'595	'510	'362	'358	'442	'361	'378	'538	'379	'479	'403

TABLE H.
TOTAL combined NITROGEN in 100,000 parts of the WATERS.

NAMES OF COMPANIES.	1871.												
	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
THAMES.													
Chelsea - -	'354	'387	'295	'201	'244	'157	'169	'120	'101	'279	'217	'236	'234
West Middlesex -	'326	'426	'291	'201	'231	'139	'092	'079	'093	'229	'268	'285	'222
Southwark - -	'413	'433	'274	'206	'258	'168	'127	'077	'102	'237	'250	'282	'236
Grand Junction -	'368	'434	'302	'205	'233	'139	'125	'105	'096	'260	'260	'279	'234
Lambeth - -	'375	'414	'291	'195	'264	'171	'169	'110	'117	'229	'253	'304	'241
OTHER SOURCES.													
New River - -	'320	'395	'287	'205	'230	'144	'165	'149	'155	'293	'233	'278	'238
East London - -	'470	'505	'357	'208	'208	'108	'108	'072	'051	'308	'208	'214	'235
Kent - - -	'384	'476	'405	'515	'373	'365	'452	'378	'386	'350	'392	'487	'414

TABLE I.
PREVIOUS SEWAGE or ANIMAL CONTAMINATION in 100,000 parts of the WATERS.

NAMES OF COMPANIES.	1871.												
	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
THAMES.													
Chelsea - -	2990	3240	2320	1470	1750	1090	1190	570	420	2490	1600	2270	1783
West Middlesex -	2790	3590	2410	1510	1660	970	430	300	420	1490	1860	2250	1640
Southwark - -	3540	3600	2150	1460	1810	1080	720	230	410	1420	1790	2270	1707
Grand Junction -	2940	3620	2540	1510	1680	890	630	460	460	1370	1980	2270	1606
Lambeth - -	3100	3220	2280	1440	1990	1200	1140	580	610	1390	2040	2460	1788
OTHER SOURCES.													
New River - -	2770	3450	2410	1670	1760	1050	1220	1060	1120	2380	1890	2320	1925
East London - -	4020	4280	3000	1470	1470	610	500	20	0	2290	1460	1480	1717
Kent - - -	3380	4360	5630	4780	3300	3260	4100	3290	3460	3060	3470	4470	3713

TABLE K.
CHLORINE in 100,000 parts of the WATERS.

NAMES OF COMPANIES.	1871.												
	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
THAMES.													
Chelsea - - -	1·95	2·15	2·00	1·73	2·00	1·70	1·70	1·80	1·80	1·85	1·85	1·85	1·86
West Middlesex -	1·75	2·07	1·90	1·73	1·97	1·74	1·65	1·78	1·73	1·85	1·75	1·80	1·81
Southwark - -	1·98	2·13	1·93	1·73	1·97	1·74	1·70	1·75	1·75	1·70	1·75	1·90	1·92
Grand Junction -	1·85	2·10	2·00	1·73	1·97	1·70	1·70	1·75	1·75	1·80	1·75	1·70	1·82
Lambeth - - -	2·02	2·18	1·98	1·78	1·97	1·70	1·70	1·75	1·80	1·85	1·70	1·85	1·85
OTHER SOURCES.													
New River - -	1·56	1·77	1·73	1·55	1·65	1·57	1·60	1·62	1·62	1·60	1·65	1·65	1·63
East London - -	2·20	2·30	2·20	2·10	2·16	1·90	2·00	2·10	2·12	2·15	2·00	2·15	2·12
Kent - - -	2·38	2·53	2·40	2·49	2·40	2·30	2·40	2·50	2·43	2·45	2·35	2·50	2·43

TABLE L.

DEGREES of HARDNESS (1 deg. = 1 part of carbonate of lime, or its equivalent,) in 100,000 parts of the WATERS.

NAMES OF COMPANIES.	1871.												
	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
THAMES.													
Chelsea - -	20·00	19·42	20·90	20·00	20·60	20·00	21·48	21·48	20·90	22·40	23·30	24·80	21·27
West Middlesex -	21·78	20·90	22·38	20·60	20·30	20·90	20·60	20·30	20·00	20·00	23·30	24·80	21·82
Southwark - -	23·90	21·20	22·08	20·60	20·60	20·90	21·20	20·60	20·90	21·20	23·60	24·80	21·80
Grand Junction -	21·78	21·20	22·38	20·60	20·60	20·00	21·78	22·08	20·00	20·60	23·60	24·80	21·62
Lambeth - - -	19·14	18·28	21·48	20·60	20·60	20·90	20·60	22·08	20·60	22·10	24·20	24·20	21·23
OTHER SOURCES.													
New River - -	24·52	22·38	22·08	20·60	20·60	19·72	20·60	19·72	20·00	22·70	24·20	23·60	21·73
East London - -	26·64	24·22	22·38	19·14	18·58	20·30	19·72	18·28	18·28	22·70	26·00	25·70	21·83
Kent - - -	29·08	29·38	29·08	29·08	28·76	29·70	29·70	30·96	30·00	30·60	29·70	30·30	29·65

TABLE M.

AVERAGES FOR 1871.

The numbers in this Table relate to 100,000 parts of each Water.

NAMES OF COMPANIES.	Temperature in Centigrade Degrees.	Total Solid Impurity.	Organic Carbon.	Organic Nitrogen.	Ammonia.	Nitrogen, as Nitrates and Nitrites.	Total combined Nitrogen.	Previous Sewage or Animal Contamination. (Estimated.)	Chlorine.	Total Hardness.	Proportional Amount of the Total Hardness in the Kent Company's Water being taken as 1.
THAMES.											
Chelsea - - -	11·6	27·65	·191	·029	·000	·205	·234	1783	1·86	21·27	6·3
West Middlesex -	12·2	27·54	·178	·026	·000	·196	·222	1640	1·81	21·32	5·8
Southwark - -	12·0	28·53	·220	·033	·000	·202	·236	1707	1·92	21·80	7·5
Grand Junction -	10·9	27·82	·191	·032	·001	·201	·234	1696	1·82	21·62	6·5
Lambeth - - -	11·7	27·54	·197	·030	·000	·210	·241	1788	1·85	21·23	6·6
OTHER SOURCES.											
New River - -	12·0	26·93	·070	·013	·000	·224	·238	1925	1·63	21·73	2·4
East London - -	12·1	28·57	·177	·032	·002	·201	·235	1717	2·12	21·83	6·1
Kent - - -	12·5	39·81	·026	·010	·000	·414	·408	3713	2·43	29·65	1·0

AVERAGE NUMBER OF HOUSES, &c. supplied by the several LONDON WATER COMPANIES during the Year 1871; the AVERAGE DAILY SUPPLY OF WATER in Gallons, in Cubic Metres* for all purposes, in Cubic Metres for Domestic purposes, and the Number of Decalitres† supplied to each House. (Compiled from Returns furnished by the several Water Companies during the Year.)

WATER COMPANIES.	AVERAGE NUMBER of HOUSES supplied during the Year.	AVERAGE DAILY SUPPLY OF WATER DURING THE YEAR IN			
		Gallons.‡	Cubic Metres.‡	Cubic Metres for Domestic purposes (estimated).	Decalitres for Domestic purposes daily to each House.
Total	488,063	106,929,244	485,829	398,380	81·6
FROM THAMES	226,546	55,695,796	253,052	207,503	91·6
FROM LEA AND OTHER SOURCES	261,517	51,233,448	232,777	190,877	73·0
FROM THAMES.					
CHELSEA	27,810	8,363,242	37,998	31,159	112·0
WEST MIDDLESEX	42,216	9,352,010	42,491	34,843	82·5
SOUTHWARK AND VAUXHALL	78,308	16,427,386	74,637	61,202	65·4
GRAND JUNCTION	31,647	11,125,555	50,549	41,450	131·0
LAMBETH	46,565	10,427,603	47,877	38,849	62·0
FROM LEA AND OTHER SOURCES.					
NEW RIVER	119,026	23,727,333	107,804	88,399	74·3
EAST LONDON	102,238	20,434,458	92,843	76,131	74·5
KENT	40,253	7,071,657	32,130	26,347	65·5
Columns	1.	2.	3.	4.	5.

Note.—According to returns of the London Water Companies made to the Select Committee on East London Water Bills (Session 1867), it is estimated that during the year 1866, on an average, 82 per cent. of the total average daily supply of water for all purposes was for domestic use; the proportions supplied for the year 1866 have been applied in estimating the quantities for the year 1871 in column 4., showing the cubic metres probably used for domestic purposes.

The average daily quantity of water supplied by the London Companies during the year 1871 was 106,929,244 gallons (485,829 cubic metres, equal to about as many *tuns* by measure, *tons* by weight), of which about 87,681,980 gallons (398,380 cubic metres) were probably used for domestic purposes. The quantity used for house supply daily was 81·6 decalitres to each house and 11·5 decalitres (=25·3 gallons) to each person.

* A cubic metre is equal in volume to 35·3 cubic feet, or to 220·0966 imperial gallons. It is nearly equivalent to the old English *tun* of four hogsheads, holding 35·243 cubic feet. It is in general use on the Continent; and its volume of water weighs a metric ton, differing inconsiderably in weight from the ton in common use.

† One gallon equals 4·543458 of a decalitre; and 100 decalitres equal 1 cubic metre.

‡ The quantities of water in columns 2. and 3. include the supply for various purposes other than for domestic consumption.

The water companies in their returns reckon uninhabited as well as inhabited houses.

TABLES showing the NUMBER OF HOUSES, &c. supplied by the several LONDON WATER COMPANIES during each MONTH of the Year 1871; also the AVERAGE DAILY SUPPLY OF WATER IN GALLONS by the several Companies during each MONTH. (Compiled from Returns furnished by the several Companies during the Year.)

COMPANIES.	NUMBER OF HOUSES, &c. SUPPLIED IN											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Total Houses supplied	-	-	-	-	-	-	-	-	-	-	-	-
FROM THAMES	483,323	483,566	484,969	485,754	487,198	487,692	488,331	489,545	490,332	491,485	491,719	491,857
FROM LEA AND OTHER SOURCES	223,113	223,314	224,689	225,078	226,400	225,902	227,286	227,443	227,806	228,681	228,833	228,964
FROM LEA AND OTHER SOURCES	260,215	260,252	260,280	260,656	260,708	260,790	262,045	262,102	262,526	262,854	262,886	262,893
FROM THAMES.	-	-	-	-	-	-	-	-	-	-	-	-
CHELSEA	27,670	27,670	27,670	27,670	27,838	27,838	27,838	27,838	27,838	27,949	27,949	27,949
WEST MIDDLESEX	41,472	41,564	41,747	41,886	42,370	42,309	42,370	42,502	42,614	42,666	42,765	42,818
SOUTHWARK AND VAUXHALL	77,277	77,293	78,321	78,364	78,406	78,448	78,504	78,597	78,597	78,681	78,688	78,688
GRAND JUNCTION	30,929	30,929	30,929	30,929	31,820	31,820	31,820	31,820	31,820	32,316	32,316	32,316
LAMBETH	45,765	45,858	46,022	46,229	46,448	46,587	46,754	46,781	46,937	47,079	47,145	47,223
FROM LEA AND OTHER SOURCES.	-	-	-	-	-	-	-	-	-	-	-	-
NEW RIVER	118,440	118,477	118,505	118,669	118,721	118,803	119,082	119,119	119,543	119,634	119,666	119,673
EAST LONDON	101,852	101,852	101,852	101,852	101,852	101,852	102,624	102,624	102,624	102,624	102,624	102,624
KENT	39,923	39,923	39,923	40,135	40,135	40,135	40,359	40,359	40,359	40,596	40,596	40,596
Total Quantities supplied	-	-	-	-	-	-	-	-	-	-	-	-
FROM THAMES	102,824,606	100,782,216	101,557,556	103,838,573	108,692,357	111,292,104	112,107,897	116,799,067	114,854,087	105,645,974	103,055,193	102,446,507
FROM LEA AND OTHER SOURCES	51,804,352	52,508,912	53,825,041	54,788,246	56,310,884	57,916,820	58,829,736	59,685,510	60,233,238	55,666,837	53,791,243	53,291,243
FROM LEA AND OTHER SOURCES	61,020,254	48,278,304	47,783,515	48,810,327	62,381,493	53,375,784	53,377,961	57,118,557	54,120,949	49,979,137	49,260,941	49,155,264
FROM THAMES.	-	-	-	-	-	-	-	-	-	-	-	-
CHELSEA	7,203,100	7,663,600	7,868,600	8,178,900	8,449,400	8,982,800	9,000,300	9,291,700	9,621,800	8,839,100	7,759,700	7,504,400
WEST MIDDLESEX	8,510,508	8,705,733	8,893,298	9,054,474	9,619,259	9,783,547	10,275,328	10,620,511	10,028,244	9,122,729	9,014,374	8,757,115
SOUTHWARK AND VAUXHALL	16,391,400	16,427,890	16,492,172	16,490,892	16,432,672	16,434,254	16,438,414	16,438,414	16,438,414	16,438,726	16,438,575	16,401,227
GRAND JUNCTION	10,299,344	10,291,949	10,855,102	11,016,814	11,236,133	11,825,019	11,690,574	11,614,414	12,193,223	10,755,582	10,859,703	10,868,501
LAMBETH	9,400,000	9,420,240	9,889,871	10,107,166	10,473,500	10,890,700	11,226,240	11,820,471	11,951,453	10,510,700	9,730,900	9,760,000
FROM LEA AND OTHER SOURCES.	-	-	-	-	-	-	-	-	-	-	-	-
NEW RIVER	22,400,000	20,837,000	20,985,000	22,149,000	24,706,000	25,313,000	24,986,000	27,452,000	26,834,000	23,161,000	23,153,000	22,655,000
EAST LONDON	21,896,000	20,237,900	19,806,800	19,352,700	19,807,000	20,455,000	21,277,500	21,877,500	20,371,500	19,727,600	19,727,600	20,081,000
KENT	6,724,254	7,093,404	6,943,715	7,398,627	7,868,493	7,697,784	7,312,961	7,784,057	6,965,349	6,446,637	6,380,341	6,419,264

Note.—The quantities of water in the above Table include the supply for various purposes other than for domestic consumption.

FIRES IN LONDON DURING THE YEAR 1871.*

From the Report of Captain Shaw, the Chief Officer of the Metropolitan Fire Brigade, it appears that 1842 fires were attended by the brigade during the year 1871, showing a decrease of 104 or 5 per cent. on the previous year; but an increase of 362 when compared with the average of the last 10 years. Of these 1842 fires 207, or 11 per cent., resulted in serious damage, and 1635, or 89 per cent., in slight damage; the per-centages of serious and slight losses in the previous year were 14 and 86 respectively. In 82 fires attended by the brigade in 1871 life was endangered, and in 28 of these life was actually lost. The number of persons seriously endangered by fire was 219, of whom 181 were saved and 38 lost their lives. In 1870 the number of lives saved was 153 and of lives lost 33.

The establishment consists of 3 floating steam fire engines and 110 land engines (of which 25 are steam and 85 manual engines), distributed amongst 50 fire engine stations and 4 floating stations. There are also 104 fire-escapes at 93 stations. The number of firemen is 387 (against 378 in the previous year), of whom 107 are employed on the several watches by day and 169 by night. The number of firemen who received injuries in 1871 was 95, against 104 in the previous year. In one of the 95 cases the injuries were fatal.

The quantity of water used in extinguishing fires in the Metropolis during 1871 was a little more than sixteen million gallons, of which about half was taken from the river, canals, and docks, and the remainder from the street pipes. Captain Shaw again testifies to the zeal shown by the Water Companies in obviating or mitigating the defects of the very imperfect system for supplying water in the Metropolis. With regard to the Metropolis Water Act of last session he says: "It may be hoped that the provision for constant service, which comes into force on the 21st April 1872, will have the effect of at least making every fire-plug represent an immediate supply of water. For deficiency of supply, which is a totally different matter, the remedy is absolutely in the hands of those who pay water rates, as there can be no doubt that the Water Companies are both able and willing to sell them as much as they choose to pay for." And with regard to complaints, common at and after fires, of the shortcomings of some authority erroneously supposed to have control over the Water Companies, he remarks: "It cannot be too widely known that at present there does not exist any public authority for regulating the water supply of the Metropolis, and that the whole arrangement is simply one of private negotiation between those who have water to sell and those who wish to buy."

TABLE showing the NUMBER of FALSE ALARMS and of FIRES attended during each Month of the Year 1871.

1871.	FALSE AND CHIMNEY ALARMS.			FIRES.			TOTAL CALLS.
	False.	Chimneys.	Total.	Seriously damaged.	Slightly damaged.	Total.	
TOTAL - - -	124	80	204	207	1635	1842	2046
January - - -	8	13	21	21	140	161	182
February - - -	9	8	17	14	126	140	157
March - - -	7	7	14	15	154	169	183
April - - -	6	7	13	15	133	148	161
May - - -	11	6	17	15	153	168	185
June - - -	9	7	16	14	110	124	140
July - - -	7	3	10	17	115	132	142
August - - -	19	9	28	29	181	210	238
September - - -	15	1	16	17	135	152	168
October - - -	8	5	13	18	106	124	137
November - - -	13	7	20	5	135	140	160
December - - -	12	7	19	27	147	174	193

* Derived from the Annual Report of the Chief Officer of the Metropolitan Fire Brigade for 1871.

